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ABSTRACT

This compilation is one of a series produced through the combined efforts of the United States Office of Education/Environmental Education, coordinators for environmental education in the various states, and the ERIC Center for Science, Mathematics, and Environmental Education, in an attempt to collect and detail environmental education efforts throughout the nation. The series is assembled in geographical groupings, using combinations of the U.S. Office of Education regions. This third volume in the series includes Alabama, Florida, Georgia, Illinois, Indiana, Kentucky, Michigan, Minnesota, Mississippi, North Carolina, Ohio, South Carolina, Tennessee, Virgin Islands, and Wisconsin. Environmental education information from these states is provided under the following headings: State Environmental Education Contact; State Plan Activities; School Programs and Activities (or Environmental Education Programs Funded); University and College Programs and Activities; Groups and Agencies with Interest in Environmental Education, Resource Materials Available; and Possible Resource People. Related documents are SE 017 101, SE 017 102, SE 017 104, and SE 017 105. (JR)

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STATE DIRECTORIES IN ENVIRONMENTAL EDUCATION

based on information supplied by

The United States Office of Environmental Education

and

State Coordinators for Environmental Education

Coordinated by

John F. Disinger and Beverly M. Lee

Volume III - U. S. Office of Education Regions IV and V

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ERIC Information Analysis Center for
Science, Mathematics, and Environmental Education
400 Lincoln Tower
The Ohio State University
Columbus, Ohio 43210

November, 1973

SE 017 103

PREFACE

This compilation is one of a series produced through the combined efforts of the United States Office of Education/Environmental Education (USOE/EE), coordinators for environmental education in the various states, and the ERIC Center for Science, Mathematics, and Environmental Education (ERIC/SMEAC), in an attempt to collect and detail environmental education efforts throughout the nation.

The compilation was begun in 1972 as part of a contract between USOE/EE and ERIC/SMEAC. Initial input was obtained from the files of the USOE/EE and assembled by Ms. Joan M. Nicholson, Ms. Catherine Barnett, and Mr. Andrew B. Rosenberg of that office, working under the direction of Mr. Paul Cromwell, USOE/EE, and Dr. John F. Disinger, ERIC/SMEAC.

Coordinators of environmental education at the state level were asked to review the information for their respective states in detail, and have made numerous additions, deletions, and other corrections. In cases where such a review was not obtained, information based on original 1972 data from USOE/EE has been utilized.

Because the field of environmental education is dynamic, many revisions have been necessary, and will continue to be so. Therefore, inaccuracies in this and other volumes in the series will generally reflect inability to keep up with change in the field, though doubtless other errors of both commission and omission will be noted. ERIC/SMEAC will appreciate any information regarding such errors, both to keep its own files updated and for future editions of these directories.

The series is assembled in geographical groupings, using combinations of the U. S. Office of Education regions, and is available only through Educational Document Reproduction Service (EDRS). Contents of each document are listed on the next page. Also noted for each entry is recentness of update information: entries not marked with asterisks have been updated since June 1, 1973; those marked by single asterisks were reviewed by state coordinators in late 1972 or early 1973; those marked by double asterisks have not been reviewed by state coordinators.

In addition to those named above, substantive assistance has been received from: George Lowe, USOE/EE; Robert W. Howe and Robert E. Roth, ERIC/SMEAC; Mrs. Robert L. Steiner and Mrs. Stanley L. Helgeson, typists; and coordinators for environmental education in the various states, as named within the individual entries.

John F. Disinger and Beverly M. Lee
Coordinators

November, 1973

This publication was prepared pursuant to a contract with the National Institute of Education, United States Department of Health, Education, and Welfare. Contractors undertaking such projects under Government sponsorship are encouraged to express freely their judgment in professional and technical matters. Points of view or opinions do not, therefore, necessarily represent National Institute of Education position or policy.

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Utah
Washington
Wyoming

* Entry updated by state coordinator between September 1, 1972 and June 1, 1973.

** No update information received from state coordinator; entry based on information supplied in Spring, 1972 by USOE/EE.

All other entries have been reviewed and updated by state coordinators for environmental education since June 1, 1973.

ALABAMA

STATE E.E. CONTACT:

Miss Erline Curlee
Science Consultant
State Department of Education
State Office Building
Montgomery 36104
(205) 269-7504

STATE PLAN PROGRESS:

A proposal from the Alabama Environmental Quality Council was funded for FY 1972 by the Office of E.E./HEW. Chairman of the Council is John Bloomer; address of the Association is P.O. Box 11000, Montgomery, 36111.

COMPOSITION OF PLANNING GROUP:

JOHN W. BLOOMER, CHAIRMAN, The Alabama Environmental Quality Council; Chairman of the Board, The Alabama Environmental Quality Association; Managing Editor, The Birmingham News; American Society of Newspaper Editors; Program Advisory Committee for Southern Newspaper Publishers Association Foundation; Tri-Counties American Red Cross.

MARTHA MCINNIS, COORDINATOR, The Alabama Environmental Quality Council; Executive Vice President and Treasurer, The Alabama Environmental Quality Association; Director of Program Development, Alabama Farm Bureau Federation; President-Elect, Alabama Home Economic Association; United States Chamber of Commerce Agri-Business and Rural Affairs Committee; Vice President, Alabama Conference on Citizenship.

J. D. HAYS, PRESIDENT, The Alabama Environmental Quality Association; President, Alabama Farm Bureau Federation; Board of Directors, American Farm Bureau Federation; Board of Directors, State National Bank; President, Huntsville Real Estate Investment Trust; Chairman, Alabama Resource Development Committee; Vice Chairman and Director, Alabama 4-H Club Foundation; Member, Alabama Space Science Commission; Advisory Council, Alabama Community and Technical Services; Huntsville Industrial Expansion Committee.

HONORABLE PHIL H. SMITH, Alabama House of Representatives; Chairman, Legislative Council on Environmental Protection; Chairman of the House Committee on Agriculture; Chairman of the Board of Directors, Talladega County Farm Bureau.

DR. IRA L. MYERS, State Health Officer, Department of Public Health; President, Association of State and Territorial Health Officers; Chairman, Air Pollution Control Committee, Chairman, Alabama Water Improvement Board; Board of Directors, The Alabama Environmental Quality Association.

JAMES J. BRITTON, Vice President, Alabama State Chamber of Commerce; Alabama Historical Commission; Alabama Highway Users; Alabama Export Council; Natural Resources Commission of United States Chamber of Commerce.

LONNIE E. MARTIN, Vice President, Alabama Real Estate Association; Vice President, Alabama Council Association Executives.

TOMMY KIMBROUGH, President, Kimbrough and Associates Advertising, Inc.; Alabama Soft Drink Association; Montgomery Industrial Council; Chamber of Commerce; Montgomery Advertising Club; Board of Director, Sales and Marketing Exchange Club.

ARTHUR BECK, Chief Engineer and Director, Bureau of Environmental Health; American Water Works Association; American Society of Civil Engineers; American Public Health Association; Conference of State Sanitary Engineers; Federation of Sewage and Industrial Wastes Association and Harvard Public Health Alumni Association; Secretary and Chairman and National Director of the Alabama Mississippi Section of the American Water Works Association.

T. L. FAULKNER, State Director, Vocational Education; Past Chairman, State United States Department of Agriculture Council; Past Chairman, State Soil and Water Conservation Committee; Past Chairman, State Rural Resource Development Committee; Awarded "The Outstanding Service Citation" by National Vo Ag Teacher Association; Past Chairman, Alabama United States Department of Agriculture Rural Development Council.

ALFRED S. CHIPLEY, Director, Vector Control; Member of Pesticide Advisory Committee; Chairman, Region IV Vector Control Council.

WARNER FLOYD, Director, Alabama Historical Commission; Alabama Resources Development Committee; Alabama Bi-Centennial Commission; Alabama Conservancy; Public Relations Council of Alabama; Governor's Mansion Board of Directors.

MRS. BOB DICKSON, JR., South Central Alabama Girl Scouts; National Eco-Action Program.

ED PEPPERMAN, United States Brewers Association, Inc.; Board of Director, Keep Montgomery Beautiful, Inc.

MRS. CECIL LANGLEY, Board of Directors, The Alabama Environmental Quality Association; Board of Director, Alabama Farm Bureau Federation; State Women's Committee Chairman, Alabama Farm Bureau Federation; Chairman, Detention Home and Juvenile Probation Officers Committee; Member, County Business and Professional Women's Club; Talladega County Council for Children and Youth, Inc.

B. P. DILWORTH, Director, State Supervisor Vocational Agri-Business Education; Rural Development Committee; Resources Development Committee; Forestry Committee; State Soil and Water Conservation Committee; Alabama State Development Group.

CHARLES BURKE, United States Brewers Association, Inc.; Board of Director, Keep Montgomery Beautiful, Inc.

DR. LEROY BROWN, State Superintendent of Education; Ex-Officio member of all state colleges and universities; Trade College Authority; Wage Commission.

JOHN A. GARRETT, Director, Farmers Home Administration; Alabama Society for Crippled Children and Adults; Chamber of Commerce; Goodwill Industries.

JAMES W. HALL, Manager, Alabama Press Association; Alabama Safety Coordinating Committee; Governor's Jobs for Veterans Task Force Committee.

* * * * * * * * * * * * * * * * *

Judge Winston Stewart, Director, Association of County Commissioners.

Troy Ingram, Supervisor Rural Sales, Alabama Power Company.

Mrs. James Durden, President, The Garden Clubs of Alabama, Inc.

Mrs. Dan Waite, Jr., President, Alabama Banker's Association.

William B. Lingle, State Conservationist, United States Department of Agriculture Soil Conservation Service.

Miss Ruth Stovall, Supervisor, Home Economics Division State Department of Education.

Dr. Worth Lanier, Chairman, Environmental Health Division, Cooperative Extension Division.

Mrs. Mary E. Coleman, Assistant Director of Women's Work, Cooperative Extension Service.

Hilton Watson, Vice President, Alabama Forest Products Association.

Jack Honeycutt, Sanitarian II, Bureau of Environmental Health.

B. J. Russell, Executive Director, Alabama Broadcasters Association.

Mrs. T. R. Scales, President, Alabama Federation of Women's Clubs.

Martin J. Darity, United States Department of Commerce.

Mrs. E. P. Terrell, Member of State Women's Committee for Alabama Farm Bureau Federation.

Mrs. Jackie Loyd, Jr., Member of State Women's Committee for Alabama Farm Bureau Federation.

Mrs. Melton Flowers, Member of the State Women's Committee for Alabama Farm Bureau Federation.

Mrs. Abner Barnes, Member of the State Women's Committee for Alabama Farm Bureau Federation.

Mrs. James Tolar, Jr., Member of the State Women's Committee for the Alabama Farm Bureau Federation.

Mrs. E. J. Hall, Member of the State Women's Committee for the Alabama Farm Bureau Federation.

Mrs. Oscar Jones, Member of the State Women's Committee for Alabama Farm Bureau Federation.

Robert D. Holloway, Public Relations Manager, Reynolds Metals Company.

Guerry Pruett, Highway Director, Alabama Highway Department.

Colonel W. L. Allen, Director, Public Safety.

Dr. Henry Orr, Professor, Department of Horticulture, Auburn University.

C. W. Moody, State Forester, Alabama Forestry Commission.

Professor Samuel P. Snow, Director, Urban and Regional Planning at Auburn University.

Bob Holt, Boy Scouts of America.

PROJECTIONS OF THE COUNCIL ARE:

Projecting to work with the State Department of Education in Environmental Education. The State Superintendent of Education is a member of the Education Interest Group on the Alabama Environmental Quality Council. Many of his staff will be involved in the Regional Education Interest Groups. (The Alabama State Board of Education has applied for funding under the Environmental Education Act-Public Law 91-516.)

Developing procedures, in conjunction with the United States Department of Agriculture, to initiate their Environmental Thrust Program. Alabama will cooperate with the United States Department of Agriculture in developing a Pilot Program for Environmental Thrust that will be used as a model in other states.

Pursuing a request from Auburn University and the University of Alabama that will establish an internship program for graduate students in Environmental Planning and Management. Such a program will be designed to take advantage of the expertise available from graduate students (under the direction of their major professor). It is projected that additional expertise can be made available by having University faculty as consultants to communities. This will require an adjustment in the professor's teaching load.

Members of the Alabama Environmental Council will direct the development of a Master Plan based chiefly on information collected over the state from a net work of Six Regional Environmental Quality Council Meetings. Specific topics to be addressed at these meetings are:

The environmental education needs for Alabama (what the state's environmental problems are, what are their causes, and what role environmental education should play in their solution).

Resources (programs, written and audio-visual materials, curricula, facilities and personnel) that are being, or could be, utilized for education purposes.

Educational programs and activities, both in school and community-based, that might help meet the environmental needs of geographical areas and the state as a whole.

Roles and responsibilities related to environmental education that the various public and private entities in Alabama (business, formal education, government, community service organizations, lab, or etc.) should assume in carrying out, supporting and promoting.

The establishment on the State Environmental Quality Council of eleven interest groups and a designated Interest Coordinator. Each group will represent a major segment of the Alabama population. The Special Interest Groups are:

Youth
Education
Communication Media
Conservation
Community Improvement
Civic/Service Clubs
City/County/State Government
Health
Business/Industry
Rural
Legislation

The establishment of Six Regional Environmental Quality Councils (corresponding to the regions within the state already established by the Soil Conservation Service). These Councils will provide a means of communication between groups and individuals through membership on the Council.

The establishment of Regional Interest Groups with an appointed Interest Coordinator for each group. (Regional Interest Coordinators work with State Interest Coordinators.)

The sponsorship of regional workshops and seminars in each of the geographical areas.

The conducting of a cross-section survey to determine the environmental perceptions, knowledge and concern of the citizens of Alabama. This survey will be conducted by volunteers in selected communities around the state.

PUBLIC SCHOOL ACTIVITIES:

Environmental Problems (Elementary and Junior High School)
Mr. Zollie Reed
P.O. Box 9036 Crestline Heights Branch
Mountain Brook, Alabama 35213

Environmental Science in the Middle School
Mr. Robert Bumpus
Decatur City Schools
Decatur, Alabama 35601

Outdoor Education
Mr. Vincent Brocato
Mobile County Schools, P.O. Box 1327
Mobile, Alabama 36601

UNIVERSITY AND COLLEGE ACTIVITIES:

Graduate Training Program in Environmental Engineering
Dr. G. P. Whittle, Professor of Civil & Mineral Engineering
University of Alabama at Tuscaloosa
Tuscaloosa, Alabama 35486
(205) 348-6010

University of Alabama Arboretum
Dr. Frederick C. Gabrielson
Box 1927
Tuscaloosa, Alabama 35486

A Noise Abatement Program
Dr. Charles E. Hickman
Electrical Engineering Department
School of Engineering, Auburn
Auburn, Alabama

Southern Union State Jr. College
Joanne Jordan
Wadley, Alabama 36276
(205) 395-2211

Funded for FY 1972 by Office of E.E./HEW. The project involves development of written supplemental curriculum materials for the elementary level. Furthermore, this college is conducting an Environmental Awareness Program at Environmental Study Areas at Bald Rock, Hackneyville and Horseshoe Bend. The college students are trained in environmental teaching methods, who in turn lead children from the public schools in their outdoor learning experience.

Center for Environmental Studies
University of Alabama
Huntsville, Alabama

In 1971, the state legislature appropriated three-quarters of a million dollars to the University of Alabama to establish a Center for Environmental Studies. This center is intended to become the state's center for Environmental Research. Hopefully, the efforts of the center will spread to education.

Human Resource Development Center
Director: T. J. Pinnock
Tuskegee Institute
Alabama 36088

Alabama Consortium for Development of Higher Education, Inc.
P.O. Box 338
Demopolis, Alabama 36732
Exec. Director: Dr. Lillian Manley
(205) 289-0177

The Consortium is an incorporated association of 7 institutions of higher education in Alabama which is committed to cooperation in a multiplicity of programs. It hopes to inventory and assess environmental education in ACDHE institutions, and from the results, project needed activities for improvement of E.E. programs in the 7 colleges and universities (Alabama A & M University, Huntingdon College, Judson College, Miles College, Stillman College, University of Alabama, University of Montevallo).

Center for Urban Studies
University of Alabama
Birmingham, Alabama
Director of Research: Robert Juster
(205) 934-3500

The Center has established a strong working relationship with the representatives of an adjoining urban community, which is a microcosm of the region in terms of environmental problems. The Center hopes a partnership between itself and the community will lead to an awareness of and implementing solutions for adverse environmental conditions.

A Student-originated study was done by:
Air and Water Pollution Control by the Textile Industry in the Southeast
Mr. Andrew C. Rucks
c/o Dr. Hal B. Pickle
School of Business
Auburn University
Auburn, Alabama 36830
(Presented report at December, 1971 AAAS meeting)

AGENCIES, GROUPS, ETC. WITH INTEREST IN E.E.:

Greene County Economic Development Commission Inc.
P.O. Box 385
Greene County, Alabama
Exec. Director: Spiver Gordon
(205) 372-3342

The Commission is interested in developing the awareness of Greene County residents and surrounding area to appreciate and deal with environmental changes brought about by industrialization.

Alabama Conservancy
Charles Prignore, President
(Sociologist at University of Alabama, Tuscaloosa)

Alabama Forestry Commission

Alabama Department of Conservation and Natural Resources

Committee on Natural Resources for the Alabama League of Municipalities

Department of Public Health
State Office Building
Montgomery, Alabama 36104

Sierra Club
Tuscaloosa, Alabama

Greater Birmingham Alliance to Stop Pollution Inc. (GASP)
800 S. 20th St.
Birmingham, Alabama 35205

Planned Parenthood League of Alabama
1714 11th Ave.
South Birmingham, Alabama 35205

Green Thumb Gardening
Mr. Nel Wallace, Botanical Gardens
Birmingham, Alabama 35213

State Council on E.E.
Assists the State Department of Education in upgrading its curriculum and general approach to E.E. Current members of the Council are:

Miss Erline Curlee, Chairman, Science Consultant, State Department of Education, State Office Building, Montgomery, Alabama 36104

Mr. Arthur N. Beck, Chief Engineer and Director, Bureau of Environmental Health, State Department of Health, Montgomery, Alabama 36104

Mr. Russell I. Berry, Social Studies Consultant, State Department of Education, State Office Building, Montgomery, Alabama 36104

Dr. J. C. Blair, Director, Division of Instruction, State Department of Education, State Office Building, Montgomery, Alabama 36104

Mr. Robert C. Boone, Specialist, Education Instruction Section, Department of Conservation, Administrative Building, Montgomery, Alabama 36104

Mr. J. D. Couch, Science Consultant, State Department of Education, Jacksonville State University, Jacksonville, Alabama 36265

Mrs. Marie Hendrix, Social Studies Consultant, State Department of Education, Jacksonville State University, Jacksonville, Alabama 36265

Mr. W. A. Heustess, Coordinator, Basic Sciences Section, State Department of Education, State Office Building, Montgomery, Alabama 36104

Dr. John W. Hill, Education Consultant, Division of Research and Higher Education, State Department of Education, State Office Building, Montgomery, Alabama 36104

Dr. Ken Johnson, State Environmental Advisor, Alabama Development Office, State Office Building, Montgomery, Alabama 36104 (Now of University of Alabama in Huntsville)

Mr. John Kirkpatrick, Division of Agricultural Chemistries, State Department of Agriculture, State Office Building, Montgomery, Alabama 36104

Mrs. Vola Morris, Social Studies Consultant, State Department of Education, State Office Building, Montgomery, Alabama 36104

Mrs. Robert Ortega, President, Montgomery Branch of American Association of University Women, Montgomery, Alabama 36111

Mr. H. T. Williams, Chief, Bureau of Mines and Safety Inspection, Department of Industrial Relations, Birmingham, Alabama 35203

Mr. W. T. Willis, Director, Division of Radiological Health and Air Pollution, State Department of Health, State Office Building, Montgomery, Alabama 36104

Interpretive Nature Center
Mrs. Robert R. Reid, Jr.
2612 Mountain Brook Parkway
Mountain Brook, Alabama 35223

POSSIBLE RESOURCE PERSONS:

Nancy Brunson
Biology Instructor
Enterprise State Jr. College
Enterprise, Alabama 36330

Kulwant S. Chahal
Research Associate
Director Environmental Sciences &
Professor of Environmental Sciences & Agronomy
Carver Research Foundation
Tuskegee Institute
Tuskegee, Alabama 36088

Miss Erline Curlee
Science Consultant, State Department of Education and
Chairman of Inter-Agency Council for Environmental Studies

Jimmy Hatten
Biology Instructor
Enterprise State Jr. College
Enterprise, Alabama 36330
(He has had extensive personal experience in dealing with environmental problems.)

James Henderson
Coordinator, Environmental Quality Committee
Professor of Biology & Director, Carver Research Foundation
Tuskegee Institute
Tuskegee, Alabama 36088

Kenneth Johnson
Division of Graduate Program and Research
Associate Director, Center for Environmental Studies
University of Alabama
Huntsville, Alabama

Claude Kelly
Director of Conservation
Department of Conservation
Montgomery, Alabama 36104

Thomas Mulhern, Superintendent
National Park Service
Horseshoe Bend National Military Park
Rt. 1, Box 63, Daviston 36256

Frederick Ordway
University of Alabama
Research Institute
Division of Graduate Programs and Research
Professor of Science & Technology Applications
Huntsville, Alabama
(Head of Science and Technology Applications and Evaluation Section - involved with broad studies of the application of space and other science and technology to industrial, environmental, and social progress, technology transfer, impact analysis, educational programs, and history of science and technology.)

FLORIDA

STATE E.E. CONTACT:

C. Richard Tillis
Consultant, Environmental Education
Division of Elementary and Secondary Education
Department of Education
Tallahassee, Florida 32304
(904) 599-5730

Mr. Tillis is the full time environmental education consultant for the State Department of Education. His responsibilities include leading and coordinating all of the state-wide programs. In addition, there is an Advisory Council for Science Education composed of people from the public and private sector who will recommend and formulate policies in different areas concerned with environmental education.

STATE PLAN ACTIVITIES:

In August 1970, a survey was conducted throughout the State to assess the various local environmental education programs. Five projects were chosen as outstanding examples of different approaches to studying the environment. From the evidence of the survey it was concluded that although many interesting programs were going on, there was no comprehensive school program to include the whole State. On the basis of this need, a master State Plan for Florida was devised and approved in the summer of 1971 to coordinate state-wide environmental education activities.

LEGISLATION:

The Florida Environmental Education Act has been effective since July 1, 1970.

SCHOOL PROGRAMS AND ACTIVITIES:

Dade County: The program involves implementation of an interdisciplinary approach in schools to environmental education, implementation of a training program for teachers to improve their knowledge and skills in this area, and establishing communication and cooperation between school and community on environmental issues. Elements of the program include a Marine Science Day Camp, outdoor education center, "South Florida Environmental Science Media Productions" - 52 videotapes, films, strips, audio-tapes, and accompanying learning activities packages, Ecology Guides, interdisciplinary, K-6, four themes: (a) survival and adaptation,(b) interaction and interdependence,(c) variety and pattern, (d) continuity and change; staff development courses (Marine and Land Ecology), bibliography of people and places important to environmental

studies, film and videotape of public relations releases and a course on ecology currently being taught in two high schools.

Center for Environmental Education - Brevard County: Established during the planning/pilot phase of the Title III program, "Broad Spectrum Environmental Education Project". It has a reference library, data files, and teacher resource publications.

Broward County: Interdisciplinary Environmental Education K-12.

Citrus County: Marine Science Station.

Duval County: Marine Science Education Center, Mayport.

Taylor County: Perry Outdoor Resource Use Center.

Palm Beach County: Pine Jog Environmental Teaching Center.

Lee County: Environmental Field Studies Program.

Orange County: Environmental Information Center.

"Nature's Classroom," Outdoor Education Center
Hillsborough County
Henry Verges, Principal
P.O. Box 3408
Tampa, Florida 33601

"Nature's Classroom" is a school in a cypress swamp named by a principal and eight teachers where each day 250 sixth graders from Tampa go through a series of multi-disciplinary education activities designed to introduce them to the plants, trees, and animals of south central Florida. The setting for the outdoor school is spectacular; there is a nature zoo, and everyone is extremely enthusiastic about the school. Model City monies have gone for building dorms for inner city children to stay overnight.

The Science Center of Pinelas County, Inc.
Charles Gibbs, Director
7701 22nd Avenue North
St. Petersburg, Florida 33710
(813) 342-8691

Through a series of scheduled orientations, the Center gives every school child in the county a chance "to become acquainted with the mysteries of science and nature." Its approach to science education is "Learn By Doing." Students are required "to learn science by their own use of the tools of science. The end products are young scientists working under adult supervision on individual research projects they themselves have proposed as a result of studies in their own fields of interest." Field trips are a vital part of the program. Students search as far as Crystal River and the Florida Keys. The Center grounds and gardens provide a closer to home study site for plants, flowers, insects, soils, and animals. The Center offers spring, fall and summer workshops. There is no rigid sequential structure. Students from grades 4-12 can attend any or all sessions. Students have use of several thousand square feet of well equipped lab space, a rooftop observatory, planetarium, 200 seat auditorium machine shop, 6,000 volume scientific library, animal and marine life, a converted yacht, a 25 ft. boat, and display space for completed projects.

UNIVERSITY AND COLLEGE PROGRAMS AND ACTIVITIES:

Dean Cooper
University of South Florida
Tampa, Florida

Many separate relevant courses offered from all traditional departments. Currently an integrated multi-disciplinary program is being organized and plans for an environmental major and graduate work in this area are being prepared.

University of Florida
Gainsville, Florida

Graduates work in Environmental Engineering Sciences leading to degrees of Master of English, Master of Science in Engineering, Engineer, and Dr. of Philosophy. Students may specialize in air resources, water supply and water pollution control, solid waste control, environmental biology and water chemistry.

The following students undertook projects and made reports on them at the December, 1971 meeting of the American Association for the Advancement of Science:

Mr. Paul Carlson
c/o Dr. John B. Morrill
Chairman, Department of Natural Sciences
New College
Sarasota, Florida 33578

Ecological Effects of Spoil Islands Created by Dredging in Estuaries along the West Coast of Florida.

Mr. Sam S. Hill, III
c/o Dr. J. Richard Warren
Director, Continuing Education
Jacksonville University
Jacksonville, Florida 32211

Design of an Urban Transportation System for Jacksonville, Florida.

Mr. Patrick H. Neale
c/o Dr. Carl H. Snyder
Department of Chemistry
University of Miami
Coral Gables, Florida 33124

Chemical and Biological Relationships in Deep Water Areas of the Everglades.

Louis V. Wilcox, Jr.
Fahkahatchee Environmental Studies Center
Remuda Ranch
P.O. Box 188
Goodland, Florida 33933

The Center is sponsored by Cedar Crest College, Allenton, Pennsylvania; it is "dedicated to education and research in the subtropical environment of Southwest Florida."

Rodney F. Allen
Florida State University
426 Hull Drive
Tallahassee, Florida 32306

Mr. Allen is project director of activities leading to the development of supplemental curriculum materials for the secondary level, focusing on environmental ethics, with FY72 monies under the E.E. Act.
Telephone (904) 599-2318 or 599-2430.

GROUPS AND AGENCIES WITH INTEREST IN E.E.:

Department of Air and Water Pollution Control
315 S. Calhoun Street
Tallahassee, Florida 32301

Department of Natural Resources
Larson Building
Gaines Street at Monroe
Tallahassee, Florida 32304

Tallahassee Junior Museum
Tallahassee, Florida

SAVE, Inc.
(Suncoast Active Volunteers for Ecology)

Crystal Lake E.E. Center
School Board of Alachua County

Alachua County Conservation Council

Environmental Systems Engineering Institute
Dr. Martin Wanielista, Director
Florida Technological University
Box 25000
Alafaya Trail
Orlando, Florida 32816

Jacksonville Can Reclamation Center
Reynolds Metals Company
Manager: Steven Robertson
Jacksonville, Florida

Environmental Information Center
Florida Conservation Foundation, Inc.
William Partington, Director
935 Orange Avenue
Winter Park, Florida 32789
(315) 644-5377

South Florida Regional Planning Council
P.O. Box 8083
Coral Gables, Florida 33124

Conservation 70's, Incorporated
Loring Lovell, Executive Director
319 S. Monroe, Dorian Building
Tallahassee, Florida 32304
(904) 224-9992

E.E. Center
William Hammond
2266 2nd Street
Fort Myers, Florida 33901

Environmental Information Center
P.O. Box 922
Sarasota, Florida 33578

Member of Ecology Center Communications Council

Florida Defenders of the Environment, Inc.
Box 12063
Gainesville, Florida 32601

An organization of scientists, economists, attorneys, and other concerned citizens who are encouraging research and compiling and disseminating information on the environmental impact of a Cross-Florida barge canal.

Southeastern Environment Council, Inc.
P.O. Box 31278
Yukon Branch
Jacksonville, Florida 32230

A non-profit but not tax-exempt corporation. Programs include distribution of educational materials and legal action to promote better enforcement of existing laws and the creation of new ones necessary for a quality environment.

Institution of Sanitation Management
1710 Drew Street
Clearwater, Florida 33515
Harold Rowe, Executive Director
(813) 446-1674

The institution is interested in supplying career information about environmental sanitation management to young people.

Roy Bazire
Sanibel-Captiva Conservation Foundation
P.O. Box 25
Sanibel, Florida 33957
(813) 472-1149

Received FY72 monies under the E.E. Act to develop supplemental curriculum materials based on an "Environmental Quality Index" for Southwest Florida.

Dr. R. F. Mines
National Association for Environmental Education
11011 S.W. 104th Street
Miami, Florida 33156

Received FY72 monies under the E.E. Act for the development of curriculum materials for the secondary level.

Hal Scott
Florida Audubon Society
P. O. Drawer 7
Maitland, Florida 32751

Received FY72 monies for the training of community members to introduce environmental education in their schools and communities.

Florida Conservation Foundation
c/o William M. Partington
935 Orange Avenue
Winter Park, Florida 32789
(305) 644-5377

The environmental information center for the Florida Conservation Foundation is the central clearinghouse for all environmental news throughout Florida. An almost weekly publication, "Tallahassee Report," contains valuable information on governmental activities affecting the environment. "ENFO," their newsletter, is concerned with specific issues such as Big Cypress protection. In addition to these education services, the Center also seeks grants for research surveys on different factors affecting the Florida environment. Florida Conservation Foundation receives its funds from foundations or from agencies for particular projects.

Central and Southern Florida Flood Control District
P. O. Box 1671
West Palm Beach, Florida 33402

The District publishes the Water Management Bulletin.

Roy Hyatt, Director
Environmental Sensitivity Center
2501 Hayne Street, North
Pensacola, Florida 32503

The Center hopes to relocate at the old L & N terminal, Wright Street. The new museum will tell the story of natural history of the area.

Florida Institute of Oceanography

Has information concerning water pollution and problems created by dredge and fill operations.

Center for Estuarine Studies
Dr. George G. Kelley, Chairman
University of Jacksonville
Jacksonville, Florida 32211
(904) 744-3950

The Center seeks to provide for a colony of scholars who will endeavor to close the gap of knowledge which exists between fresh and salt water life and to provide knowledge which will aid in conservation as well as to document the effect of alterations of the environment upon this life.

Division of Applied Ecology
Center for Urban Studies, University of Miami
P.O. Box 8002
Coral Gables, Florida 33124
(315) 284-4011
Director: Arthur Marshall

Environmental Action Group
Alan Sandler
Tampa, Florida
(904) 392-1635

RESOURCE MATERIALS AVAILABLE:

Teachers Curriculum Guide
Field Ecology
Brevard County Schools
Dr. Wayne White, Superintendent
(Sponsored by Dr. Clair Bemiss, Director, Center for E.E.)

Supplemental Resource Guide in E.E. for Elementary Teachers.
Brevard County Schools
Dr. Wayne White, Superintendent
1971

Sources of Reference Materials and Audio Visual Aids for E. E.
From: Interdisciplinary E.E. K-12 Project, School Board of Broward County, an ESEA Title III Planning Project based at Nova High School, Broward County. 160 pp. 1971, revised 1972. Includes: sources of information, free materials, catalogs and promotional material; periodicals, audiovisual reference materials, bibliography.

POSSIBLE RESOURCE PEOPLE:

Dr. Clair Bemiss, Director
Center for E.E.
Brevard County Schools

Frank Bouwsma
Office of Instructional Resources
Miami-Dade Junior College
11011 S.W. 104 Street
Miami, Florida

He has worked extensively with the development of a curriculum, Man and His Environment.

Lynwood Cox
Brevard Junior College
Florida

He is familiar with the Man and His Environment curriculum developed at Miami-Dade.

Harriet Everhard
Science Consultant
Dade County School System
Miami, Florida

Under the leadership of Harriet Everhard, the entire school system (K-12) has been integrating E.E. concepts. Selected sixth grade elementary students spend two days at an E.E. center located at Crandon Park, Key Biscayne, actively discovering ecological concepts. Children are also taken to Everglades National Park for the same program.

Robert M. Johnson
Florida State University
Tallahassee, Florida

R. F. Mines
National Association for E.E.
11011 S.W. 104th Street
Miami, Florida 33756
(305) 274-1381

Barbara Stromberg
Monroe Jr. High School
4716 Montgomery Avenue
Tampa, Florida 33616

She is a Junior high teacher who has used the Group for E.E. curriculum materials from Philadelphia, Pennsylvania.

Hal W. Walter
Fahkahatchee Environmental Studies Center
Goodland, Florida

Ruth Weiner
Florida International University
Miami, Florida 33144

William Fryar
E.E. Specialist
Duval County School Board
Jacksonville, Florida 32202
(904) 355-8871

Andrew Dzurik
Assistant Professor of Urban and Regional Planning
Florida State University
Tallahassee, Florida

Edward McClure
Associate Professor and Chairman
Department of Urban and Regional Planning
Florida State University
Tallahassee, Florida

Dr. Felicia West
Assistant Professor of Education
University of Florida
Gainesville, Florida

Expertise in geology and field studies.

Paul Becht, teacher
P. K. Yonge Laboratory School
Gainesville, Florida

Nancy Griffin
P. K. Yonge Laboratory School
Gainesville, Florida

Palmer Craig
Audubon Society and Sperry-Rand Inc.
Gainesville, Florida

Dr. Robert Lindquist
Assistant Professor
University of Florida and Alachua County Conservation Council
Gainesville, Florida

Dr. John Bevis
Associate Professor, Environmental Engineering
University of Florida
Gainesville, Florida

Robert Bledsoe
Assistant Professor of Political Science
Florida Technological University
Orlando, Florida 32816

Expertise in political and social aspects and repercussions of ecological problems.

James Frank
Assistant Professor of Urban and Regional Planning
Florida State University
Tallahassee, Florida

He is a licensed Professional Planner in New Jersey and a full member of the American Institute of Planners.

Dr. Thomas Gadsden
Assistant Professor of Education
University of Florida
Gainesville, Florida

Expertise in physics, integrated science and education.

Virginia Allen, Instructor
P. K. Yonge Laboratory School
Gainesville, Florida

Charles Hoffman, Assistant Professor of Anthropology
University of Florida and Alachua County Historical Society
Gainesville, Florida

Thomas Allen
Gainesville, Florida

Specialist in underwater photography and scuba diving.

Wilburn Farrell
Alachua County Agricultural Agent

T. A. Andrews
Alachua County Agricultural Agent

Dan Kossoff
WJCT-TV
Jacksonville, Florida

Director of Community Involvement. Producer-Director of the program "Come to Florida. . . Before It's Gone."

GEORGIA

STATE E.E. CONTACT:

Mr. Dallas Stewart
Science Coordinator
State Department of Education
Office of Instructional Services
State Office Building
Atlanta, Georgia 30334
(404) 656-2576

PUBLIC SCHOOL ACTIVITIES:

Jarvis Barnes
Atlanta Public Schools
224 Central Avenue, S.W.
Atlanta, Georgia 30303

Barnes is project director of activities leading to the development of a process curriculum for the secondary level with FY 1972 E.E. Act monies.

Cobb County School District
Elizabeth Elementary School
Charles Hardy
(404) 428-2379

In February 1971, an interagency group was formed to coordinate E.E. activities in the Cobb county area. This group includes: educators from the Cobb County School system, Kennesaw Jr. College, Georgia State; members of the Youth Museum and representatives from the National Park Service. It also involves interested people from the U.S. Forest Service, the Soil Conservation Service, Fernbank Science Center and the Atlanta Department of Parks and Recreation.

Fernbank Science Center
156 Heaton Park Drive, N.E.
Atlanta, Georgia 30307
Director: Lewis S. Shelton

Council Member of the American Association for Advancement of Science (AAAS) Commission in Science Education. "Conceived and operated by the DeKalb County School System, it is designed to foster appreciation of our natural heritage and the enhancement of scientific literacy. Thru many educational programs based on current scientific frontiers, Fernbank has bridged the gap between the forefronts of scientific knowledge and more than 350,000 students and adults who visit the Center annually." Its teaching resources include a planetarium, a weather satellite tracking station equipped meteorological lab, an electron microscope lab, the largest observatory in the southeastern region, a nuclear science lab, a science reference library, and a spacious exhibit area. The Center also utilizes its 180 acres of natural areas as a living laboratory to insure insight and understanding in the natural sciences. Plans call for addition of a major museum,

an inland marine aquarium, botanical gardens, and a large greenhouse area. The Center was awarded FY 1972 monies under the E.E. Act for the development of environmental education programs in grades K-12.

UNIVERSITIES & COLLEGE ACTIVITIES:

Cooperative Extension Service
University of Georgia

They can provide personnel for program planning and development, subject matter unit coordinators, instruction staff, resource personnel, printed material for use as text and teaching aids.

Institute of Natural Resources
University of Georgia
203 Forestry Bldg.
Athens, Georgia 30601
(404) 542-1555

Intelligent use and expanded development of natural resources are the primary concerns of the Institute. As an administrative organization, it is responsible for implementing and fostering research and training programs centered around the state's wealth of resources and problems of their development. Various departments whose disciplines bear upon natural resource problems are brought together cooperatively through the Institute to coordinate programs and expertise in marine science and technology for coastal development; biological resources (fish, wildlife, forests, etc.); and water and mineral resources.

Environmental Resources Center
Georgia Institute of Technology
Atlanta, Georgia
Carl Kindsvater
(404) 873-4211

Institute of Ecology
Dr. Frank B. Golley, Executive Director
University of Georgia
Athens, Georgia 30601
(404) 542-2968

The Institute operates multidisciplinary research and training programs in ecology. Research programs include radiation ecology, marine science, nutrient recycling, tropical forest ecology, etc. Training programs are concerned with environmental health and systems ecology. The Institute also serves as an environmental information center for the community. During the academic year 1970-71 they supplied more than seventy speakers to various groups in the Athens area. They also operate the Savannah River Ecology Laboratory in cooperation with the Atomic Energy Commission.

Dr. Everett T. Keach
University of Georgia
130 Fain Hall
Athens, Georgia 40405

Dr. Keach is project director of activities leading to the development of written supplemental curriculum materials for the elementary level with FY 1972 E.E. Act monies.

AGENCIES & GROUPS WITH INTEREST IN E.E.:

Regional Director
Federal Water Quality Administration
Southeast Region
1421 Peachtree Street, N.E.
Atlanta, Georgia 30303

Georgia Department of Human Resources
Division of Public Health
116 Mitchell Street, S.W.
Atlanta, Georgia 30303

Georgia Department of Natural Resources
Division of Game and Fish
Trinity-Washington Building
270 Washington Street, S.W.
Atlanta, Georgia 30334

State Soil and Water Conservation Committee
318 Extension Annex Building
Athens, Georgia 30601

Georgia Department of Natural Resources
Water Quality Control Agency
47 Trinity Avenue, S.W.
Atlanta, Georgia 30334

Youth Museum of Savannah
Savannah, Georgia

American Institute of Urban & Regional Affairs
Dr. William Nash, President
P.O. Box 1913
Atlanta, Georgia 30301

The Institute was created in order to provide an institutional framework in which the profound and complex implications of urbanization could be studied and better understood. The unique features of the Institute are its concern with an interdisciplinary approach to the subject and a deliberate orientation to action programs. It asserts that research should be used to improve the condition of man.

Georgia Natural Areas Council
350 Seven Hunter Street Building
Executive Director: Sam Candler
Atlanta, Georgia

Southern Forest Institute
One Corporate Square, N.E.
Atlanta, Georgia 30329

Consumer Action Group
Box 608
Athens, Georgia 30601
President: Marilyn Atyeo

Macon Youth Museum Inc.
4182 Forsyth Road
Macon, Georgia 31204
Director: Glen P. Ives
(912) 745-6549

There is a planetarium connected with the museum and interpretive center building for an E.E. program.

Georgia Conservancy
1025 Chandler Building
Atlanta, Georgia 30303
Mr. W. Smithurst, Director Education Committee
(404) 252-7045

The Georgia Conservancy, a statewide organization, has established an education committee which is primarily concerned with E.E. activities in the Atlanta area. It is currently developing curriculum materials in environmental studies for specific use in the nearby Panola Mountain area which the organization has acquired. It is also working on an environmental information packet and a regular environmental newsletter for distribution in the area.
Their advisory committees: air and water pollution; coastal areas; historic sites; inland waters; urban environment. Chapters have been organized in Athens, Columbus, Cobb County, DeKalb County, Rome, and Savannah.

The Garden Club of Georgia, Inc.
Mrs. James T. Anderson, Jr.

The Garden Club of Georgia Inc. is financing the placement of People and Their Environment in all the Georgia schools.

Citizens for Clean Air
Atlanta, Georgia
Mrs. Pat Roone
(404) 939-5819

SAVE (Save America's Vital Environment)
P.O. Box 52652
Atlanta, Georgia 30305
Mrs. Jane Yarn
(404) 237-2344

SAVE is a lobbying group of experienced volunteers organized to promote good planning, wise use, and protection of Georgia's environment and natural resources through legislative, administrative and legal processes.

Kennesaw Mt. National Battlefield Park
Box 1167
Marietta, Georgia 30060
Mr. Ray Gerdes
(404) 427-4686

National Park Service and Kennesaw Mountain National Park have long been committed and involved with E.E. programs thru the establishment of Environmental Study Areas and National Environmental Education Development sites. (Kennesaw: C.W. Ogle, Supt. (404) 427-4686; P.O. Box 1167, Marietta 30060) The National Park Service has worked with the Cobb County and Marietta Schools in developing environmental awareness thru use of the study areas. It continues the goals that were developed by an Inter-Agency Environmental Education Action Group.

Okefenokee Curriculum Center (An Environmental Study Area)
Route 4, Box 180
Waycross, Georgia 31501
Donald L. Berryhill, Instructional Specialist
(912) 283-8494

The Okefenokee Elementary Science Curriculum Project, formerly an ESEA Title III program now supported by state funds, emphasizes conservation and environmental education through the use of Okefenokee Swamp. They have planned several educational facilities in the Okefenokee and are also working on improved science curriculum in grades K-8 for southeast Georgia schools.

Russell Farnen
George Peabody College for Teachers
University of Georgia
Athens, Georgia

Dr. Mary Hepburn
Fernbank Science Center
156 Heaton Park Drive, N.E.
Atlanta, GA 30307

Mrs. R. Beth Nicholson Joyner, Science Instructor
Marvin Pittman Lab School
Georgia Southern College
Statesboro, Georgia 30458
(912) 764-6611 Ext. 405

Allen Stovall
Assistant Professor of Landscape Architecture & Environmental Design
School of Environmental Design
University of Georgia
Athens, Georgia 30601
(404) 542-1816

Bert R. Biles
Educational Coordinator
Institute for Study of Health & Society
2199 N. Decatur Rd.
Decatur, Georgia 30033
(404) 633-4271

Mr. C. Edward Carlson
Regional Director
U.S. Bureau of Sport Fisheries & Wildlife
Peachtree - Seventh Building
Atlanta, Georgia 30323

Person to contacc concerning views on vehicle use posing threat to Back Bay National Refuge, VA Beach. (and other places). The Bureau is proposing new regulations.

Professor Eugene P. Odum
University of Georgia
Athens, Georgia 30601

Dr. M. J. Rice
Director of the Georgia Anthropology Curriculum Project and
Geography Curriculum Project

He has been working with environmental materials within the context of anthropology and geography.

Frank Golley, Director
Institute of Ecology
University of Georgia
Athens, Georgia 30601
(404) 542-2968

A. Burnham Cooper AIA
2045 Peachtree Rd. N.E.
Atlanta, Georgia 30309

ILLINOIS

STATE E.E. CONTACT:

Dr. J. Robert Sampson
Director of Environmental Education
Office of the Superintendent of Public Instruction
Springfield, Illinois 62706
(217) 525-2826

STATE PLAN ACTIVITIES:

The recommendations made by the Illinois Task Force for Environmental Education to implement environmental education programs in local schools have outlined six critical needs. Following these recommendations numerous statewide activities are currently in operation in the areas of organization and communication, curriculum planning, teacher in-service, school site facility development, continuing education and research and evaluation. Full scale implementation of the total environmental education program is scheduled for 1974.

E.E. PROGRAMS FUNDED FOR 1972:

Daniel Perlman
Roosevelt University 430 S. Michigan Avenue
Chicago, Illinois 60606

A program which will develop curriculum materials for training of inner city educational personnel.

Noel McInnis
Center for Curriculum Design
823 Foster Street
Evanston, Illinois 60204

The center will hold nationwide regional workshops for environmental educators.

Thomas Shea
School District #115
S. Mercer Street
Princeton, Illinois 61356

They will develop community based curriculum materials for use in rural elementary schools.

Illinois Earth Science Association
Southern Illinois University

Contact OEE.

Gary Kratz
Winnebago County Soil and Water Conservation District
3620 Auburn Street
Rockford, Illinois 61103

Winnebago County is designing curriculum for community environmental education.

Malcom Swan
Northern Illinois University
Box 299
Taft Field Campus
Oregon, Illinois 61061

This program will train in-service personnel serving intermediate and secondary schools.

Ted Andrews, Governor's State University
College of Environmental and Applied Sciences
Park Forest South, Illinois 60466

The program will develop a curriculum for urban community leaders.

Donald Benedict
Community Renewal Society
13315 Pleasant Valley Road
Woodstock, Illinois 60098

They will develop an outdoor E.E. Center program serving inner city residents.

SCHOOL PROGRAMS AND ACTIVITIES:

Community Consolidated School District #65
1314 Ridge Avenue
Evanston, Illinois 60201
Joseph Porter, Superintendent
(312) 869-2100

This district has an Outdoor Education program which enables all fifth grade students in the Evanston community to make use of the concepts and skills acquired in their formal basic science curriculum. Racially, ethnically, socio-economically integrated groups of students from the public and private schools spend three days together living in a natural setting observing, and exploring the environment and reacting to one another and to their experiences.

La Salle County Board of Supervisors
La Salle County Court House
Ottawa, Illinois 61350

This county initiated an environmental education program in September 1971. This program "provides educational experiences that will help to establish and formulate attitudinal and behavioral changes conducive to both man and his environmental counter-parts." The County has purchased 33 acres of land on the south bluff of the Illinois River. On this site an environmental center has been constructed containing a classroom, display and work area, and office space. In the fall and winter session, over 3,000 school students ranging in levels from Trainable Mentally Handicapped to college seniors have availed themselves of educational services. A summer environmental experience was planned for county students. Teachers' institutes on E.E. have been and will be conducted at the schools and the E.E. Center. Also, Northern Illinois University has conducted courses at the Center.

Community Unit School
District # 200
501 W. South St
Woodstock, Illinois, 60098

"Woodstock Environmental Education Project"
Director, Roy J. Habeck
$120,000 - FY 1971 Title III Funds Allocated to E.E.

An environmental education program will be established to develop positive attitudinal and behavioral patterns of teachers, students, and other citizens concerning environment so as to effect improvement and enhancemnet of environmental quality. Students, teachers, and parents will identify environmental problems of the area, State, and Nation; will formulate proposed solutions to identified problems; and will develop materials and programs to augment the existing curriculum. Through these activities, participants will gain understanding of ecology and will learn to identify environmental problems, and to work through legal means for orderly solutions.

Board of Education
City of Chicago
228 North La Salle Street
Chicago, Illinois 60601

A pilot course in E.E. was introduced in three Chicago high schools and six elementary schools during the 1971-72 school year. Contributors to the development of the course were students, teachers, curriculum consultants, professional staff, community representatives, and specialists from industry and government agencies.

UNIVERSITY AND COLLEGE PROGRAMS AND ACTIVITIES:

Department of Conservation and Outdoor Education
Southern Illinois University
Carbondale, Illinois 62901
(618) 453-3192
(618) 536-2035
Chairman: Paul F. Nowak

Publishes "The Outdoor Teacher"

The Outdoor Laboratories of Southern Illinois University has been offering workshops in Conservation and E.E. for high school students for the last six years. Students from all over the state have come at all times of the year to the 6,000 acre outdoor facility at Little Grassy Lake. From a basically traditional conservation program, it has evolved into a program deeply concerned with contemporary environmental issues.

Environmental Engineering Center
Professor E. Vey, Chairman
Illinois Institute of Technology
Chicago, Illinois 60616
(312) 225-9600

The Center was established in order to offer opportunities to faculty and to graduate students of the Institute for research and education in water resources and waste treatment for environmental health and improvement of environmental conditions.

Loredo Taft Field Campus
Dr. Donald Hammerman
Northern Illinois University
Box 299
Oregon, Illinois 61061

Dr. Donald Hammerman joined the Taft Campus faculty in 1954 to coordinate a program of outdoor learning and teaching experiences for all of N.I.U.'s elementary education majors. This program of outdoor teacher education evolved over the years into what is now recognized as the nation's most comprehensive. Over the years, since its modest beginnings in 1951, Taft Campus has developed a six-pronged educational program which has made the northern Illinois area one of the focal points of outdoor education in the U.S. Typically, junior elementary education majors are involved in an intensive three-day experience, during which

there is a variety of outdoor experiences, ranging from intensive study by an individual to development by the group of a theme. A secondary emphasis is put upon teaching children in the outdoors. As seniors, students spend a week with children at the campus. Each student has varied experiences in outdoor teaching as well as in living and learning with children.

As the university grows, an increasing number of schools in the area send teachers and children to Northern's outdoor education center. Other outdoor education programs in the area are busy throughout the school year; several trace their beginnings to the influence of Northern's program.

Northwestern Students for a Better Environment
Cresap Laboratory
Northwestern University
Evanston, Illinois 60201
(312) 491-9627

Science Information Speakers' Bureau
Dr. J. Joseph Levin
The Chicago Medical School
2020 W. Ogden Ave.
Chicago, Illinois 60612

One of SIPI's affiliated science information committees.

Southern Illinois University Outdoor Laboratory (SIU)
Dr. Paul Yambert
Carbondale, Illinois

Students for Environmental Concerns
c/o University of Illinois YMCA
1001 S. Wright
Champaign, Illinois 61820
Coordinator: J. E. Dunwoody
(217) 344-1351

Sagawau Conservation Club
Paul Blenz, President
Box 247
Lemont, Illinois 60439
(312) 257-2045

Panhellenic Council, Inc
737 North 40th Street
East St. Louis, Illinois 62205
Co-chairmen: Lena Weathers, Jesse Gurley

Student Association Environmental Planning Committee
Northern Illinois University
430 B GTS
De Kalb, Illinois 60115
(815) 753-0482
Chairman: Ray Kluka

GROUPS AND AGENCIES WITH INTEREST IN E.E.:

Operation Survival Through Environmental Education
Jerseyville, Illinois
Director: Mr. Lyndon B. Wharton (Coordinator ESEA Title III)
(217) 525-3810

Great Lakes Region
33 East Congress Parkway
Room 410
Chicago, Illinois 60605

North Shore Ecology Center
1890 Sunnyside
Highland Park, Illinois 60635

Natural Resources Education Demonstration Center
P. O. Box 264
Genoa, Illinois 60135
(815) 784-5815
(ESEA Title III)

The basis for the Center's program is the development of curriculum materials. Concepts based on 12 broad understandings about natural resources were written and integrated with the County schools' existence science and social studies curricula for grades K-12. To demonstrate the concepts in a natural environment, the Center operates in a facility in the Russell Forest Preserve at Genoa. The Outdoor Laboratory consists of 55 acres, including a portion of the South Branch of the Kishwaukee River.

The Izaak Walton League of America
1326 Waukegan Road
Glenview, Illinois 60025

Institute of Environmental Sciences
T. W. H. Miller, Executive Secretary
940 East Northwest Highway
Mt. Prospect, Illinois 60056
(313) 255-1561

IES is a professional society of both engineers and scientists devoted to testing the environments of earth and space for the betterment of mankind and the advancement of industry and science. Emphasis is placed on such areas as acoustics, corrosion, cryogenics, data acquisition, electromagnetics, environmental pollution, instrument meteorology, marine environments, nuclear radiation, shock and vibration, solar radiation, space vacuum, and ultra high temperature.

Environmental Task Force
1400 E. 53rd Street
Chicago, Illinois

Urban, interracial community - Hyde Park Kenwood (southside Chicago)

Environmental Forum, Inc.
Lakeview Center for the Arts and Sciences
1125 W. Lake Avenue
Peoria, Illinois 61614

The above Forum is sponsored by:
Edward Siebert
Caterpillar Tractor Company
100 N.E. Adams Street
Peoria, Illinois 61602
(309) 675-4464

A 500 acre wildlife refuge with a program for school children.

Center for Human Ecology
Dr. Norman D. Levine, Director
University of Illinois
Urbana, Illinois 61801
(217) 333-4178

The Center for Human Ecology studies the interrelationships between man and his environment (physical, biological, social, and political.)

This approach is necessarily both multi- and inter-disciplinary, fusing ideas and information from many different scientific areas. The Center is problem-oriented, seeking to eliminate such plagues as poverty, war, overpopulation, pollution, famine, etc. Courses are offered through the University and a new textbook is being prepared.

State Natural History Survey Division
179 Natural Resources Building, Urbana, Illinois 61801

Conducts research on the protection and most intelligent use of the State's renewable natural resources to insure maximum sustained economic, educational, and recreational benefits.

Environmental Protection Agency
535 W. Jefferson Street
Springfield, Illinois 62704

Charged with air and water pollution control, public water supply, noise control and solid waste control.

The Center for Curriculum Design
Spaceship Earth Curriculum Project
823 Foster Street
Evanston, Illinois 70204

"An Educational Foundation for thinking the world together." The Center is concerned with the "creation of humanistic educational environments and the generation of comprehensive formats for E.E. . . . it advocates and supports the development of processes, techniques, and materials for systhesis of learning experiences to complement the prevailing educational practices which fragment and compartmentalize such experiences; it seeks, creates, and disseminates information on persons, organizations, projects, materials, strategies and ideas for integrating learning experiences and facilitating the emergence of whole-earth perspectives." Several of the Center's current activities are included in the Spaceship Earth Curriculum Project. This project was conceived in the Spring of 1970, Objectives: Development of the conceptual potentials of the Spaceship Earth metaphor; creation of a one year college level Integrative Studies course (currently taught at Kendall College, Evanston, under the title "Environmental Thinking"); creation of original materials in all media which stress the theme of human/environmental integrity; convening of a Spaceship Earth Education Conference to bring together those who wish to develop whole earth educational materials and strategies with those who are already doing it.

Telephone: (312) 866-7830

American Society of Planning Officials
Israel Stollman, Executive Secretary
1313 East 60th Street
Chicago, Illinois 60637
(312) 324-3400

ASPO is a national service organization which is concerned with social, economic and environmental problems and which asserts that the healthy growth and the orderly development of our communities and the nation depend upon sound planning. In this way, communities are able to eliminate social and environmental ills which retard health and progress.

American Water Resources Association
S. C. Callany, General Secretary
P. O. Box 434
Urbana, Illinois 61801
(217) 367-9695

The AWRA is a non-profit organization which is concerned with advancement of water resources research, planning, development, and management. It fosters the interdisciplinary cooperation of engineers, physical and biological scientists, and sociologists regarding water resource policies as well as collects, organizes, and disseminates ideas and information in the field of water resources science and technology.

Place for People
1415 Ellinwood
Des Plaines, Illinois 60016
Director: Howard Peterson

A multi-faceted youth service organization which acts as a clearinghouse on environmental education, coordinates correspondence between organizations on specific problems, and serves as general information referral service.

Clean Air Committee
John Egdorg, Executive Director
Tuberculosis Institute of Chicago and Cook County
1440 W. Washington Blvd.
Chicago, Illinois 60607
(312) 243-2000

Illinois Earth Science Association
Dr. Musa Qutub, President
Department of Earth Science
Northeastern Illinois University
Bryn Mawr at St. Louis Avenue
Chicago, Illinois 60625
583-4050 Ext 552

Chicago Public Library
Alex Ladenson, Chief Librarian
78 E. Washington Street
Chicago, Illinois 60602
(312) 236-8922

The Chicago Public Library is in the process of setting up a special collection devoted to the environment. The main impetus for the creation of this environmental education center occurred in March of 1961 when Montgomery Ward and Company announced that it was giving to the Library $25,000 over a five year period for the express purpose of developing an environment collection.

National Council for Geographic Education
William Elam, Executive Secretary
111 W. Washington Street, Room 1226
Chicago, Illinois 60602
(312) 263-4690

The Madison County Environmental Education Committee
Dale Sherrard, Co-Chairman
P. O. Box 482
Edwardsville, Illinois 62025
(618) 656-4710

Central YMCA Community College
Marcelino Crudo, Dean of Community Development
211 W. Wacker Drive
Chicago, Illinois 60606
(312) 222-8216

The College has been conducting an interdisciplinary ecology-oriented credit seminar since the Fall of 1970.

De Kalb County Natural Resources Education Demonstration Center
Ward Miller, Director
Box 264
Genoa, Illinois 60135
(815) 784-5815

Save Our Resources and Environment (SORE)
Louis Mule, Administrative Director
7329 West 634d Street
Summit (Argo P.O.) Illinois 60501
(312) 458-3500 Ext 67

This is an environmental, grass-roots community organization, located in a southwestern suburb of Chicago; SORE was formed about two years ago by a few residents to improve the quality of the area's environment.

Open Lands Project
Wayne Schimpff, Director of Environmental Education
53 West Jackson Blvd
Chicago, Illinois 60604
(312) 427-4256

Mr. Schimpff has been working with various officials at all levels of government and with many non-profit citizens organizations "to develop realistic educational programs to solve their environmental problems. The Project's E.E. program has acted as a catalyst, bringing people with problems together with those of agencies and individuals able to offer solutions."

Council on Population and Environment, Inc.
Janet Malone, Executive Director
100 E. Ohio Street
Chicago, Illinois 60611
(312) 787-1114

Sponsor of the first National Congress on Optimum Population and Environment (June, 1971) and is a national organization dedicated to clarifying and communicating the complex relationship between population growth, economic life styles, and environmental degradation.

Outdoor Laboratory
Southern Illinois University
Little Grassy Lake
Dr. Paul Yambert, Dean

The Lab provides a resource base for instruction and research for many academic departments in the University as well as services to numerous groups and individuals outside the University community. A memorandum of agreement with the Bureau of Sport Fisheries and Wildlife provides that Crab Orchard National Wildlife Refuge lands may be utilized by the Laboratory for E.E. programs. A large staff with a variety of skills is charged with the responsibility for fulfilling these goals. A major portion of staff attention is directed toward educational programs for

the young. Many students from southern Illinois visit the Lab during school hours to participate in the pioneer culture program. Other teaching stations include the Indian Hidatsa Lodge, the Indian shelter caves, a native grasses prairie, sugar maple grove, riding stables, an animal farm, and Arboretun Nature Trails.

Resident camping is a major part of the Outdoor Laboratory's activities. During the fall, spring, and summer, students from all parts of the state come to Little Grassy to attend Environmental and Field Ecology Workshops. Under the direction of Tim Merriaman, these programs attempt to educate high school students about the variety of environmental problems and motivate them to improve their home communities by starting recycling programs, and by working toward better E.E. in the public schools. At present, more than 600 students attend these programs each year.

A major part of the foundation of the Outdoor Lab falls in the category of special education. Handicapped young people and adults are involved in resident camping throughout the summer and at various times during the year. E.E. is the underlying theme of the programs which attempt to educate and provide recreation. This program, under the direction of Lou Freitag, has grown to national prominence in the field of experimental education and recreation for the handicapped.

A new program is underway at the Laboratory patterned after the national Outward Bound Schools. Directed by Henry Schaefermeyer, this program has grown from a four week summer experiment in 1970 to a major program during all seasons in 1971 and 1972.

John Kirkwood
Director, Department of Environmental Health
The Tuberculosis Institute of Chicago and Cook County
1440 W. Washington Blvd.
Chicago, Illinois 60607
(312) 243-2000 Ext. 41

RESOURCE MATERIALS AVAILABLE:

Spaceship Earth Curriculum Project
The Center for Curriculum Design
823 Foster Street
Evanston, Illinois 60204

The Outdoor Teacher Newsletter
Department of Conservation and Outdoor Education
Southern Illinois University
Carbondale, Illinois 62901

POSSIBLE RESOURCE PEOPLE:

Tom Boldrey
Washington Jr. High
4th and Richards Streets
Jolliet, Illinois 60433

Mr. Lloyd G. Humphreys
Chairman, Psychology Department
University of Illinois
Urbana, Illinois 61801
(217) 333-7277 or
(217) 333-0631

Member of National Advisory Council on E.E. The National Science Foundation is the principal federal agency concerned with E.E. with which Mr. Humphreys has served as Assistant Director of Education.

Linda R. Hoving
Greeley School
275 Fairview
Winnetka, Illinois 60093

Charles Leming (User of GEE materials)
Carbondale Community High School
200 N. Springer Street
Carbondale, Illinois 62901

Paul Gallis
Washington Jr. High
4th and Richards Streets
Joliet, Illinois

Rolf Langehaug
Huntley Middle School
7th and Taylor Streets
De Kalb, Illinois 60115

Evelyn Harris
Calumet High School
Chicago, Illinois

Writer of Environmental Studies curriculum.

Clifford Knapp, Professor
Department of Outdoor Education
Southern Illinois University
Carbondale, Illinois

Dr. Jean Kriebs
College of Education
University of Illinois
Circle Campus in Chicago

Marion Lawson
Winnebao Co. Conservation Education Council
3820 Auburn Street
Rockford, Illinois 61103

Noel McInnis
Center for Curriculum Development
Kendall College, Illinois

Mr. Richard C. Stupka
c/o Dr. James E. Brower
Department of Biological Sciences
Northern Illinois University
De Kalb, Illinois 60115

Did a study "Lead Pollution Effects on Terrestrial and Aquatic Ecosystems of the Great Lakes Region" and presented report at the December 1971 meeting of the American Association for the Advancement of Science.

Mr. Richard C. Frederick or
Mr. Dale R. Jurich
c/o Dr. William Randolph Boggess
Department of Forestry
University of Illinois
Urbana, Illinois 61801

They did a study "Effects on Society and the Environment of Alternative Methods of Packaging Goods for Household Consemption" and reported on it at the December 1971 meeting of the American Association for the Advancement of Science.

Mr. Daniel L. Eberhardt
c/o Dr. Claude A. Lucchesi
Director of Analytical Services
Northwestern University
Evanston, Illinois 70201

He did a study "Chemical, Biological, and Economic Studies of Municipal Garbage Composting" and reported on it at the December 1971 meeting of the American Association for the Advancement of Science.

Roger Podewell
City Colleges of Chicago

Attended the April 1971 meeting of the National Association for E.E.
He is familiar with Man and Environment (Miami-Dade).

James Joseph Gallagher and Ted F. Andrews
College of Environmental and Applied Sciences
Governors State University
Park Forest South, Illinois 60466
(312) 463-2211

William W. Rogge
Director
E.E. Project
Valley View District #96
Lockport, Illinois 60441

Mr. Robbie Schmidt
221 W. 3rd Street
Oglesby, Illinois 61348

Mrs. Virginia Stehney
Downers Grove, Illinois

Member of NEA Task Force on E.E. Primary grades classroom teacher.

Tony M. Sulia
Good Neighbor Day Committee
2501 Bradley
Chicago, Illinois 60618

Dr. Biorklund
Bradely University
1501 W. Bradley Pl. W.
Peoria, Illinois 61606
(309) 676-7611

Wayne Booth
University of Chicago
Chicago, Illinois

Curriculum specialist.

Mary Carpenter
East View
Route 71
Oswego, Illinois 60432

Joanne Day
The New School
Route 1
Oakley, Illinois 62552

Don Yon
1908 Galen Drive
Champaign, Illinois 61820

Member of the 1971 International Youth Conference on the Human Environment.

Mr. Ted Downey
1327 Dennison Drive, Apt A
Springfield, Illinois 62704

Gaylin Fligor
Principal, Lewis School
Carbondale, Illinois

He has written on the integration of conservation into the curriculum.

Wendell H. Berry, Jr.
1500 W. Kennedy Road
Lake Forest, Illinois 60045
(312) 234-7609

Science Station Coordinator, Biology Instructor, Lake Forest Academy; MS Botany, University of New Hampshire; University of Costa Rica - Organization for Tropical Studies; Aspen Institute in Field Biology; Naturalist Guide, Voyageur Canoe Outfitters, Quetico, Canada; Trustee - Rocky Mountain Environmental Field Center.

Ray DePalma
William Rainey Harper College
Illinois

Familiar with Man and Environment (Miami-Dade).

M. Campbell
c/o Professor Pattison
Department of Geography
The University of Chicago
Chicago, Illinois 60637

Dr. Musa Qutub
President, Illinois Earth Science Association.
Assistant Professor of Earth Science
Northeastern Illinois University
Chicago, Illinois 60625

Dr Qutub directed two workshops in environmental science, one for inner city teachers and the other for science and social studies teachers. He directed two in-service institutes for earth science teachers and held numerous workshops for earth science teachers. He is the author of numerous articles on earth and environmental science education and was chairman of two national symposiums on earth science education. Dr. Qutub is author of two forthcoming textbooks, Environmental Science - Secondary Methods of Learning and Know Your Environment - Elementary Science Methods.

Mr. John Sorenson
United Airlines

He participated as a guest lecturer in the in-service institute and in workshops and has considerable teaching experience as research meteorologist for United Airlines.

Dr. James Patterson
Assistant Professor, Environmental Engineering
Illinois Institute of Technology

Dr. Patterson participated in two workshops in environmental science and currently is teaching environmental engineering courses at Illinois Institute of Technology.

Dr. Thomas Archibold
Assistant Professor, Chemistry
Illinois Institute of Technology

Dr. Archibold is currently writing a textbook for non-major chemistry college students and is interested in developing units in chemistry that pertain to environmental awareness.

Mrs. Iva Wells
Assistant Professor
University of Illinois
Chicago Circle

She is interested in social implication of science curriculums and has given two presentations in workshops held at Northeastern and Illinois Institute of Technology.

Dr. Charles Martin
Assistant Professor, Elementary Education
University of Illinois

Dr. Earl Zwicker
Associate Professor of Physics
Illinois Institute of Technology

Dr. Zwicker directed an in-service institute in physics funded by the National Science Foundation. He participated in previous environmental workshops and has shown great interest in helping teachers experiment with more approaches to teaching science.

Mr. Jens C. Midtaune
Science Consultant
Chicago Board of Education
Chicago, Illinois

Mr. Midtaune is interested in encouraging teachers to use new approaches in teaching science and he has been cooperative in previous workshops held for science teachers.

Dr. E. Scale
Dean, College of Education
Northeastern Illinois University

Mr. Tony Torres, Science Supervisor
Title III, NDEA-Science
Office of Superintendent of Public Instruction
Springfield, Illinois

Mr. Torres has traveled extensively in Illinois and has been working with school systems in opening their schools and using more approaches to teaching elementary science.

Sam B. DeNeal
Director of Outdoor Education
Community Unit District No. 2
Marion, Illinois
(618) 993-5108

Janet Stetser
Program Services Director
Shagbark Girl Scout Council
304 N. 14th Street
Herrin, Illinois 62948
942-3164

Gladys V. Sullivan
Chairman, Science Department
Carbondale Community High School District No. 165
Carbondale, Illinois 62901

L. F. Kluth
Associate Director
University Theater
Southern Illinois University
Edwardsville, Illinois

Ray E. Miller, Director
Operation Survival Through Environmental Education
Title III, ESEA
Environmental Education Project
P.O. Box 122
Pere Marquette State Park
Grafton, Illinois 62037
(618) 786-3313

Cooperating Schools:

- Alton School District
- Alton Catholic Schools
- Bethalto School District
- Holy Ghost Catholic School, Jerseyville
- Jersey School District (Operating School District)
- Our Lady Queen of Peace Catholic School, Bethalto
- Southwestern School District
- Zion Lutheran School, Bethalto

INDIANA

STATE E.E. CONTACT:

Mr. Joe Wright
Environmental Education Consultant
Division of Curriculum
State Department of Public Instruction
Room 108, S. O. B.
Indianapolis, Indiana 46204
(317) 633-4507

SCHOOL PROGRAMS AND ACTIVITIES:

Prof. Joseph Jankowski
St. Joseph's Calumet Campus
4721 Indpls. Blvd.
East Chicago, Indiana 46312

Prof. Jankowski conducts weekend E.E. workshops for graduate credit.

Mr. Ray Lockwood
Marion Community Schools
P. O. Box 808
Marion, Indiana 46952

Mr. Lockwood is project director of activities leading to the development of a process curriculum for grades K-12, with FY 1972 E.E. Act monies.

Mr. David Whaley
Curriculum Director
Warsaw Community Schools
E. Main Street
Warsaw, Indiana 46580

Senior high environmental studies integrated: Suggested by Indiana E.E. state education agency contact as an outstanding summer E.E. program.

Mr. Harry Feldman
Eagle Creek Park and Nature Preserve
Metropolitan School District of Pike Township
6901 Zionsville Road
Indianapolis, Indiana 46268
(317) 293-0393

Department of Parks and Recreation of Indianapolis has developed an E. E. Center there. Conducts teacher workshops, implements E.E. curriculum, provides nature programs, etc.

The following educators and school districts have developed excellent environmental education programs:

Mr. Glenn Linnert
Science Supervisor
New Albany-Floyd Co. Consolidated School Corp.
802 East Market Street
New Albany, Indiana 47150

Field Biology and Elementary Outdoor Education. A Title III program which will implement state K-12 E.E. Design.

Mr. Jack Hart
Environmental Education Supervisor
Hayes Regional Arboretum
802 E. Elks Road
Richmond, Indiana 47374

Project "SEE" (Self Earth Ethic). An interdisciplinary curriculum guide which emphasizes using the school site and community. Focuses on sensory experiences etc.

Mr. Ron Riggins
Director, Bradford Woods
Martinsville, Indiana 46151

Indiana University's Residence Environmental Education Center. Camp Towaki, Camp Pioneer, Camp Riley and Manor House offer excellent facilities for residence programs, in-service training, etc.

Mr. David McGaw
Biology Teacher
West Lafayette High School
Leslie Road
West Lafayette, Indiana 47907

J. Maxwell Davis
Indiana State University
Evansville, Indiana

Organizer of a total community E.E. program to develop Stockwell Woods, an E.E. center in Evansville.

Mr. Thomas Roman
Social Studies Instructor
George R. Clark High School
1921 Davis Avenue
Whiting, Indiana 46394

Ecology Club and Community Oriented E.E. His students helped save one of the few remaining areas in Hammond, Indiana.

Mr. Joseph R. McGeehan
Social Studies Supervisor
Indianapolis Public Schools
120 E. Walnut St.
Indianapolis, Indiana

Mr. Victor Fraser
Deep River Environmental Education Center
3100 Liverpool Road
Gary, Indiana 46405

Day Camping E. E. - 5th Grade, E.E. curriculum development, in-service training, gardening.

Mr. John Davis
Science Supervisor
South Bend Community Schools
635 S. Main St.
South Bend, Indiana

Uses Bendix Woods for elementary students, residence program for 6th grade, etc.

Dr. Madgaline Davis
Outdoor Education Supervisor
Indianapolis Public Schools
120 East Walnut Street
Indianapolis, Indiana 46204

Residence Outdoor Education - 6th Grade
Project SEE (Self Earth Ethic) K-3. Summer E.E. program for 700 6th graders.
Baker Farm (a 70 acre natural site for senior high ecological studies)

University and College Programs and Activities:

WATER RESOURCES RESEARCH CENTER
Dan Wiersma, Director
Purdue University
Lafayette, Indiana 47907
(317) 494-4061

The major objective of the Center is to bring the intellectual as well as the physical resources of the University to bear upon the solution of the increasingly important scientific, technical, economic, and management problems associated with the development of the essential natural resource, water.

Institute for Environmental Health
John E. Christian, Director
Purdue University
Lafayette, Indiana 47907
(317) 749-2734

The Institute conducts broad-based interdisciplinary research and training into man's environment related to his health and ecology. Within this framework, the Institute will develop knowledge and methodology for furthering research in basic areas of concern and to increase the number of environmental scientists for academic and research institutions as well as for the field of environmental management.

The Eco-Coalition
205 Morrison Hall
Indiana University
Bloomington, Indiana 47401

They put out the Eco-Coalition Bulletin.

For membership information contact:
Mrs. Joe Wick, Secretary-Treasurer
923 S. 9th Street
Lafayette, Indiana 47905

Mr. Hector J. Rosquete
c/o Dr. John E. Christian
Institute for Environmental Health
Purdue University
Lafayette, Indiana 47907

He did a study "Air Pollution, Water Pollution, and Solid Waste Disposal Problems in the Greater Lafayette Area, Indiana," and reported on it at the December 1971 meeting of the American Association for the Advancement of Science.

Dr. Clyde W. Hibbs, Director
Natural Resources Institute
College of Science and Humanities
Ball State University
Muncie, Indiana 47306

The Institute functions within the framework of an interdisciplinary advisory committee with responsibilities in three major areas - teaching, research, and extension services. The Institute has been involved in teaching graduate courses dealing with environmental science for primary and secondary teachers and Soil Conservation Service personnel during the last two years. Staff members of the Institute provide consultant services for conservation organizations, resource agencies, and educational institutions including the U. S. Office of Education.

Jerry L. Brown
Box F
Indiana University Foundation
Bloomington, Indiana 47401

Received FY 1972 monies under the E.E. Act for Development of 12th grade curriculum materials dealing with population and its relation to the environment.

Dave Johnson
Marian College
Development and College Relations
3200 Cold Spring Road
Indianapolis, Indiana 46222

Received Fy 1972 monies under the E. E. Act for the development of a process curriculum for community members. His Wetlands project and curriculum will enhance pre-service and in-service programs.

Dr. Willis Johnson
Indiana Academy of Science
Wabash College
Crawfordsville, Indiana 47933

Received Fy 1972 monies under the E. E. Act for the development of E. E. seminars in four Indiana communities.

Urban Studies Program
St. Mary's College

With a grant form the National Endowment for the Humanities, St. Mary's College in conjenction with the University of Notre Dame has introduced an urban studies program designed to develop a "clear community self-image and contribute to formation of a truly human environment for urban living."

GROUPS AND AGENCIES WITH INTEREST IN E.E.:

Michigan Water Shed
403 Prospect Street
Elkhart, Indiana

Department of Natural Resources
608 State Office Building
Indianapolis, Indiana 46204

State Board of Health
1330 W. Michigan Street
Indianapolis, Indiana 46206

Project Urban Upswing
Indianapolis, Indiana

This is a NEA Center for Human Relations.

Lafayette Environmental Action Federation (LEAF)
P. O. Box 2103
West Lafayette, Indiana 47906

They put out the LEAF News Bulletin, a 12 page newsletter with environmental news from around the world. Activities are carried on through Charter Committees including political action, land usage, organic agriculture, waste recycling and household ecology, pollution studies and action, publicity and publications, and speakers bureau.

President, Mrs. Joe Wick (742-7800)
Vice President, Dr. William Martin Becker (463-9773)
Secretary, Mrs. Richard Terry (474-9171)
Editor, Carol Waddell (474-9690)

Indiana Conservation Council, Inc.
Jim Jontz, Executive Director
2128 E. 46th Street
Indianapolis, Indiana 46268
(317) 293-8512

The Council's prime objective is to encourage through all educational means the intelligent management of the life-sustaining resources of Indiana and the nation - soil, water, forest, and wildlife - and to promote the pursuit of knowledge and greater appreciation of natural resources, their community relationships, and wise use.

Citizens Committee for Environmental Protection

Carroll Ritter
Town and Country Trailer Park
Pump House Road
Route 1, Lot 13
Bedford, Indiana 47421
(812) 279-4782

Lafayette Recycling Inc.
Lafayette, Indiana

Purdue Environmental Action (PEA)
Lafayette, Indiana

Area Beautification Committee
Lafayette, Indiana

Lafayette Civic Design Commission
Lafayette, Indiana

Committee to Publicize Crisis Biology

Dr. Donald R. Whitehead, Chairman
Morrison Hall, Room 205
Indiana University
Bloomington, Indiana 47401

The Committee was created to establish a greater degree of public awareness of the principles of ecology as they apply to current problems of pollution, over-population, and resource depletion. In addition, it attempts to stimulate other citizens to take specific action, both as individuals and through their affiliated organizations. Members also publish a newsletter, miscillaneous fact sheets and reports for the general public.

Indiana Public Interest Research Group (Indiana PIRG)
David Hersch, State Coordinator
Indiana Memorial Union, Room 48-H
Bloomington, Indiana 47401
(812) 332-5678

"Committee to organize," inspired by Ralph Nader. A coalition of students, faculty, community groups, and professional people jointly researching issues of public interest.

Mazine Batman
Vincennes and Knox Public Libraries
502 North 7th Street
Vincennes, Indiana 47591

Received FY 1972 monies under the E.E. act for workshops involving the establishment of a rural environmental education program.

B. J. McGuiness
Marion County Tuberculosis and Respiratory Disease Association
615 N. Alabama Street
Indianapolis, Indiana 46204

Received FY 1972 monies under the E. E. act for training citizens to serve as community environmental education instructors.

Glen Catlin
American Camping Association, Inc.
Bradford Woods
Martinsville, Indiana 46151

Received FY 1972 monies under the E.E. Act for development of environmental workshop formats for use in summer camps.

RESOURCE MATERIALS AVAILABLE:

The Eco-Coalition Bulletin
205 Morrison Hall
Indiana University
Bloomington, Indiana 47401

LEAFlet
Published by: Lafayette Environmental Action Federation
P. O. Box 2103
West Lafayette, Indiana 47906
474-9171

A 12 page newsletter with environmental news from around the world. Membership in LEAF - $2 per year.

POSSIBLE RESOURCE PEOPLE:

Clyde Hibbs
Director of Natural Resources Institute
Ball State University
Muncie, Indiana

Also, Director, Conservation Education Association.

Donald Van Meter
Ball State University
Muncie, Indiana

His primary responsibility is in the general area of natural resources, including integrated resources management, and environmental education.

John Towler
Professor of Education
Purdue University
Lafayette, Indiana

Does teaching and research work pertaining to graduate and under-graduate teacher education in social studies, environmental education, geography, and psychology.

David Brenchley
Professor of Environmental Engineering
Purdue University
Lafayette, Indiana

Does teaching and research work pertaining to environmental problems. Responsible for obtaining a grant to develop a graduate training program in air pollution control. He is Chairman of the Annual Indiana Air Pollution Control Conference.

John Christian, Head
Bionucleonics Department and
Director, Institute for Environmental Health Studies
Purdue University
Lafayette, Indiana 47907

Glenn Linnert, Science Coordinator
New Albany-Floyd County Consolidated School Corp.
802 E. Market Street
New Albany, Indiana 47150
(812) 945-6681 Ext 45

Lynton Keith Caldwell
Indiana University

Member of Advisory Committee - Earth Science Educational Program.

Richard Baer
School of Religion
Earlham College
Richmond, Indiana

Mr. Harry H. Feldman
Superintendent of Outdoor Education
Department of Parks and Recreation
1426 W. 29th Street
Indianapolis, Indiana 46208

Dr. Austin Ferguson , Ex. Director
Merry Lea Environmental Center
P. O. Box 263
Wolf Lake, Indiana 46796

Conducts teacher workshops, environmental education seminars, E.E. courses, adult education programs, etc.

Subscribes to Group for Environmental Education's curriculum distribution plan (Philadelphia, Pennsylvania).

Mrs. Chauncey Baldwin
Chairman of the Board
Michigan Water Shed
403 Prospect Street
Elkhart, Indiana 46514

Member of Save-The-Dunes Council and E. E. Task Force.

Dr. Lynton Caldwell
I.U.C.N.
Department of Political Science
Indiana University
Bloomington, Indiana

Mrs. Weldon Comer
Science Resource Teacher
Gary Public Schools
Gary, Indiana

Works extensively with volunteer environmental organizations to improve Gary's environment.

Mr. Tom Dustin, Ex. Director
Izaak Walton League
1802 Chapman Road
Huntertown, Indiana 46348

Provides support to E. E. through legislation, funds, workshops, materials, etc.

John Harrold
State Social Studies Consultant
Division of Curriculum
Department of Public Instruction
Room 108, S. O. B.
Indianapolis, Indiana 46204

Conducts E. E. workshops, E. E. conferences, etc.

Professor Patrick Harsbrugh
Environic Foundation International
P. O. Box 88
Notre Dame, Indiana 46556

E. J. Kirsch
Professor of Environmental Engineering
Purdue University
School of Civil Engineering
Lafayette, Indiana 47907

Mr. John Franson
Midwest Rep.
National Audubon Society
1020 E. 20th St.
Owensboro, Kentucky

Encourages his Audubon chapters to sponsor E.E. workshops, E.E. legislation, etc.

John Moody
School of Education
Indiana University, Southeast
Warder Park
Jeffersonville, Indiana

Developer of environmental simulation activities, E. E. curriculum, environmental study areas, etc.

Dr. Marshall Parks
Science Teaching Center
Indiana State University
Terre Haute, Indiana

Conducts E. E. workshops, has students write environmental curriculum, introduces teachers to natural and man made environments, etc.

Michael M. Price
Environmental Education Consultant
Indiana State Department of Public Instruction
Southern Regional Service Center
511 4th Street
Huntingburg, Indiana 47542

Conducts weekend teacher training workshops for teachers and administrators in Indiana.

C. M. Ryan, Principal
Twin Lakes High School
300 S. Third Street
Monticello, Indiana 47960

Subscribes to Group for Environmental Education's curriculum distribution plan (Philadelphia, Pennsylvania.)

Dr. Charles Sappenfield
College of Architecture
Ball State University
Muncie, Indiana 47306

Subscribes to Group for Environmental Education's curriculum distribution plan (Philadelphia, Pennsylvania.)

Jack Snell
Environmental Education Consultant
Northern Regional Office
Department of Public Instruction
635 S. Main Street
South Bend, Indiana 46623

Conducts E. E. teacher workshops, state plan specialist, attended UNESCO Env. Conf. in Stockholm.

Leroy Troyer
3019 Essex Drive
South Bend, Indiana 46615
(219) 234-0779

Secretary General of the 1971 International Youth Conference on the Human Environment.

Dr. Wiley Wenger
School of Recreation
Indiana State University
Terre Haute, Indiana

Conducts teacher workshops, uses community as a classroom, etc.

Mrs. Helen Wildermuth, Director
Beautification and Conservation
Department of Development and Planning
Gary Planning Commission
Board of Zoning Appeals
Municipal Building
Gary, Indiana 46402

Joe Wright
State Environmental Education Consultant
Division of Curriculum
Indiana Department of Public Instruction
Room, 106, S. O. B.
Indianapolis, Indiana 46204

Responsible for K-12 E. E. guidelines, workshops, State Plan, etc.

KENTUCKY

STATE E.E. CONTACT:

Mr. Lynn Hodges
State Consultant for E.E.
Department of Education
Capitol Plaza Towers
Frankfort, Kentucky 40601
(502) 564-3505

SCHOOL PROGRAMS AND ACTIVITIES:

Environmental and Outdoor Education
Mr. James M. Major
Paducah Public Schools
1000 Clark Street
Paducah, Kentucky 42001

School Site Development
Mr. Harold Grooms
Bourbon County School System
Paris, Kentucky 40361

Murray's Environmental Education Laboratory
Murray Independent School System
Murray, Kentucky 42071

Curriculum Integration in E.E.
McCracken County School System
Dr. David S. Stewart, Superintendent
Paducah, Kentucky 42001

Environmental Education within Model City
Bowling Green Independent School System
Dr. James B. Graham, Superintendent
Bowling Green, Kentucky 42101

Curriculum Development and Community Utilization
Henderson Independent School System
William B. Posey, Superintendent
Henderson, Kentucky 42420

Curriculum Development and School Site Development
Hardin County School System
Dr. Ernie Thro, Director
Elizabethtown, Kentucky 42701

Community Resource Utilization
Elizabethtown Independent School System
William A. Sadler, Superintendent
Elizabethtown, Kentucky 42701

Inner City Environmental Education
Watson Lane Elementary
Jefferson County School System
Mr. Randall Pelfry, Principal
Louisville, Kentucky 40218

Fayette County Environmental Education Program
Fayette County School System
Mrs. Mary Strong, Supervisor
Lexington, Kentucky 40503

Rural Environmental Education
Owen County Elementary School
O. V. Jones, Superintendent
Owen County School System
Owenton, Kentucky 40359

Project PEICE (Environmental Education and Early Childhood Education)
Title III, ESEA Region V
Ray Muffett, Coordinator (11 county area)
Tradewind Center
Somerset, Kentucky 42501

Project for Environmental Awareness
Title III, ESEA Region VI
Shaw Blankenship, Coordinator (18 county area)
601 Beagley Building
Eastern Kentucky University
Richmond, Kentucky 40475

L.B.J. Environmental Education Program
L.B.J. Elementary School
Francis Johnson, Principal
Jackson, Kentucky 41339

Tennessee Valley Authority's Land Between the Lakes
Environmental Education Center
John Paulk, Educational Director
P. O. Box 27
Golden Pond, Kentucky 42231

Union College Environmental Education Center
Dr. Ed Baker, Director
Cumberland Gap National Park
Middlesboro, Kentucky 40965

Pine Mountain Settlement School
Environmental Education Center
Peter Westover, Director
Pine Mountain, Kentucky 40864

Louisville Environmental Education Program
Louisville Independent School System
David Shulhafer, Coordinator
Louisville Board of Education
Fourth and Broadway
Louisville, Kentucky 40202

UNIVERSITY AND COLLEGE PROGRAMS AND ACTIVITIES:

Union College
Training and Site Development in Environmental Education
Barbourville, Kentucky 40906
Dale Myers, Director

Prestonsburg Community College
Robert Allen, Coordinator
Prestonsburg, Kentucky 41653

Somerset Community College
James Anderson, Coordinator
Somerset, Kentucky 42501

Thomas More College
Bill Bryant, Coordinator
Covington, Kentucky 41017

Kentucky Wesleyan College
Dr. Lee A. Dew, Coordinator
Owensboro, Kentucky 42301

Spalding College
Sister Mary Gemma, Coordinator
Louisville, Kentucky 40203

Hopkinsville Community College
Charlie Irvin, Coordinator
Hopkinsville, Kentucky 42240

Elizabethtown Community College
George L. Luster, Coordinator
Elizabethtown, Kentucky 42701

Lexington Technical Institute
Russell E. Puckett, Coordinator
Lexington, Kentucky 40503

Paducah Community College
John E. L. Robertson, Coordinator
Paducah, Kentucky 42001

Jefferson Community College
William B. Turner, Coordinator
Louisville, Kentucky 40201

Ashland Community College
Libby Callihan Walthall, Coordinator
Ashland, Kentucky 41101

St. Catherine College
John S. Wright, Coordinator
St. Catherine, Kentucky 40061

Murray State University
Don Hunter, Coordinator
Murray, Kentucky 42071

Western Kentucky State University
Chuck Crume, Coordinator
Bowling Green, Kentucky 42101

University of Louisville
Kirom C. Bordoloi, Coordinator
Louisville, Kentucky 40202

Kentucky State University
Dr. Gerritt Kloek, Coordinator
Frankfort, Kentucky 40601

University of Kentucky
Dr. Roger Barbour, Coordinator
Lexington, Kentucky 40503

Eastern Kentucky State University
Dr. Glenn O. Carey, Coordinator
Richmond, Kentucky 40962

Morehead State University
Dr. Jerry F. Howell, Coordinator
Morehead, Kentucky 40351

Funded under E.E. Act - FY 1971, FY 1972.

Bellarmine College
Charles E. Kupchella, Coordinator
2000 Norris Place
Louisville, Kentucky 40205

Funded under E.E. Act - FY 1972.

GROUPS AND AGENCIES WITH INTEREST IN E.E.:

Bernheim Forest Nature Center
Ben Armstrong, Coordinator
Bernheim Forest
Clermont, Kentucky 40110

State Department of Health
Irvin Bell, Assistant Director
275 E. Main Street
Frankfort, Kentucky 40601

State Department of Natural Resources
Bill Gayle, Coordinator
Capitol Plaza Towers
Frankfort, Kentucky 40601

State Department of Fish and Wildlife
James Gilpin, Coordinator of Conservation Education
Capitol Plaza Towers
Frankfort, Kentucky 40601

Soil Conservation Service
Harvey D. Bradley, State Conservationist
Lexington, Kentucky 40504

Mrs. Ruth Fishback
Buckley Hills Audubon Society
Versailles, Kentucky 40383

Title I ESEA
Mr. John Bruce, Director
Capitol Plaza Towers
Frankfort, Kentucky 40601

Louisville Audubon Society
Mrs. Barry Jacobs, Executive Secretary
3616 Windward Way
Louisville, Kentucky 40220

State Department of Commerce
John Stapleton, Coordinator of Research and Planning
Capitol Plaza Towers
Frankfort, Kentucky 40601

Army Corps of Engineers
Tom Sweet, Coordinator
Louisville, Kentucky 40202

Kentucky League of Sportsmen & National Wildlife Federation
William Smith, Coordinator
Rt. 6
Owensboro, Kentucky 42301

Title III, ESEA
John Bruce, Coordinator
Capitol Plaza Towers
Frankfort, Kentucky 40601

State Department of Parks
Bill Marshall, Coordinator
Capitol Plaza Towers
Frankfort, Kentucky 40601

Agriculture Experimental Station
Joe B. Williams, Coordinator
University of Kentucky
Lexington, Kentucky 40504

Save Our Kentucky
Mr. James Branscome
P. O. Box 795
Louisville, Kentucky 40201

Mammoth Cave National Park
Len McKenzie, Chief Naturalist
Mammoth Cave, Kentucky 42259

Mt. People's Rights
Prestonburg, Kentucky 41653

Kentuckiana Girl Scout Council
Mary Jo Leppert, Field Director
1268 Cherokee Road
Louisville, Kentucky 40204

Kentucky Program Development Office
Margaret LeBus, Representative
Capitol Plaza Towers
Frankfort, Kentucky 40601

Kentucky Forestry Council
Dr. Thomas Hansbrough, Coordinator
University of Kentucky
Department of Forestry
Lexington, Kentucky 40506

Kentucky Tuberculosis and Respiratory Disease Association
Joseph M. Higdon, Western Kentucky Regional Director
P. O. Box 137
322 West 5th Street
Owensboro, Kentucky 42301

Future Homemakers of America (student group)
Mrs. Agnes Foster, Advisor
Capitol Plaza Towers
Frankfort, Kentucky 40601

Future Farmers of America (student group)
Mr. James M. Everett, Advisor
Fulton County High School
Hickman, Kentucky 42050

Cumberland Chapter of the Sierra Club
Mr. Carroll Tichenor, Chairman
Cave Run Farm
Nicholasville, Kentucky 40356

Kentucky Academy of Science
Dr. Marvin Russell, President
Ogden College of Science and Technology
Western Kentucky University
Bowling Green, Kentucky 42101

Kentucky Congress of Parents and Teachers
Mrs. W. Glenn Keightley, 1st Vice President
4405 Church Street
Covington, Kentucky 41015

Bluegrass Organic Association
Mary Ann Cateforis, Coordinator
984 Maywick Drive
Lexington, Kentucky 40504

Citizen's Metropolitan Planning Council, Inc.
P. O. Box 175
Louisville, Kentucky 40201

Kentucky Association of Conservation Districts
Mr. Robert Ellis, President
709 Florence Pike
Burlington, Kentucky 41005

Daniel Boone National Forest
Mr. Joe Clark, Coordinator
Winchester, Kentucky 40391

Kentucky Education Association
Gerald Jaggers, Coordinator
101 West Walnut Street
Louisville, Kentucky 40202

Courier Journal and Times
525 West Broadway
Louisville, Kentucky 40202

Paducah Sun Democrat
Pat Moynahan, Coordinator
Kentucky Avenue
Paducah, Kentucky 42001

Kentucky Department of Environmental Protection
Thomas Harris, Director
Capitol Plaza Towers
Frankfort, Kentucky 40601

Kentucky Department of Highways
Darrell Baker, Coordinator
Capitol Office Building
Frankfort, Kentucky 40601

Tennessee Valley Authority
Golden Pond Office
John Paulk, Coordinator
Golden Pond, Kentucky 42231

Coca-Cola Bottling Company
Craig R. Schmidt, Coordinator
Louisville, Kentucky 40202

RESOURCE MATERIALS AVAILABLE:

Experimental curriculum materials:*

Kentucky Department of Education
Paducah Public Schools
Bourbon County Public Schools
McCracken County Public Schools
Henderson Public Schools

*For complete addresses and contact persons, see preceding pages.

Hardin County School System
Jefferson County, Watson Lane Elementary
Project PEECE, Title III, ESEA Region V
Union College Environmental Education Center
Pine Mountain Settlement School

General Resource Material:*

Morehead State University
T.V.A./Land Between the Lakes - Residential facilities
Department of Health - Solid Wastes, Housing, Regulations
Department of Commerce - Regulations, Economics, Trade impact
Army Corp of Engineers - Technical impact of construction
Buckley Hills Audubon Society - Audubon publications, day use facilities
Department of Fish and Wildlife - monthly publications, resource guides
Department of Natural Resources - brochure items on conservation
University of Kentucky
Mammoth Cave National Park - NESA and NEED material
Kentucky Tuberculosis and Respiratory Disease Association - several brochures and one book dealing with air, health, and pollution
Cumberland Chapter of Sierra Club - Sierra Club publications
Appalachian Hardwood Association - filmstrips, kits, and samples relating to forestry management and use
Courier Journal - regular news articles, syndicated column on ecology
Paducah Sun Democrat - regular articles, special reports on E.E. in Western Kentucky area
Kentucky Department of Highways - impact statements in brochure form
Coca-Cola Bottling Company - Ecology kit X013 - environmental games

POSSIBLE RESOURCE PEOPLE:

Wendell Berry
Department of English
University of Kentucky
Lexington, Kentucky 40503

*For complete addresses and contact persons, see preceding pages.

Wayne Davis
Professor, School of Biological Sciences
University of Kentucky
Lexington, Kentucky 40503

Wrote "Overpopulated America" (New Republic, January 10, 1970, pp. 13-15).

Dr. Roger Barbour
School of Biological Sciences
University of Kentucky
Lexington, Kentucky 40503

Has written several books on ecological habitats and wildlife in Kentucky.

Mr. James M. Major
1000 Clark Street
Paducah Board of Education
Paducah, Kentucky 42001

Coordinator of one of Kentucky's outstanding E.E. programs. Developed curriculum guide, Objectives and Field Activities in Environmental Education, consisting of teacher developed curriculum materials, multidisciplinary.

Mr. Harold Grooms
Director of Environmental Education
Bourbon County Board of Education
Paris, Kentucky 40361

Developed and coordinated curriculum for school site development adjacent to high school and junior high school.

Mr. Robert Howes, Director
Land Between the Lakes
Golden Pond, Kentucky 42231

Over-all director of the 177,000 acre national recreation area that is being preserved in semi-wilderness status.

Mr. John Paulk, Director
E.E. Center
Land Between the Lakes
Golden Pond, Kentucky 42231

Director of the environmental education program in L.B.L. consisting of day-use, residential use, public school and general public educational models.

Mr. Chuck Crume
Western Kentucky University
Bowling Green, Kentucky 42101

Wildlife artist and educator-naturalist involved in outdoor education programs.

Mr. James Gilpin, Director
Conservation Education
Department of Fish and Wildlife
Capitol Plaza Towers
Frankfort, Kentucky 40601

Director of conservation camps in Kentucky and supervisor of school programs utilizing conservation officers and wardens.

Mr. Len McKenzie, Chief Naturalist
Mammoth Cave National Park
Mammoth Cave, Kentucky 42259

Presentations on NESA and NEEDS programs, specializing in area near Mammoth Cave. Ecology of cave systems and formations.

Mr. Wayne Hewell, Supervisor
Training of Environmental Aides
Manpower Training Development Program
Hopkinsville, Kentucky 42240

Special presentation on the sucess of training and placing technical aides for environmental surveys and assessment.

Mr. Ray Muffett, Coordinator
Project PEECE
Title III, ESEA Region V
Somerset, Kentucky 42501

Coordinator of curriculum development project covering eleven counties in south-eastern Kentucky.

Mr. Shaw Blankenship, Coordinator
Environmental Awareness
Title III, ESEA Region VI
Eastern Kentucky University
Richmond, Kentucky 40475

Coordinator of in-service training and awareness workshops for 18 county area in eastern Kentucky.

Mr. Peter Westover, Director
Pine Mountain Settlement School
Pine Mountain, Kentucky 40864

Director of 800 acre environmental education center serving the Appalachian region of eastern Kentucky.

Dr. Charles E. Baker, Director
Union College E.E. Center
Middlesboro, Kentucky 40965

Director of residential facility within Cumberland Gap National Park. Center converted from a phased-out Job Corp Center

Mr. Lynn Michael Hodges, Consultant
Environmental Education
Kentucky Department of Education
Capitol Plaza Towers
Frankfort, Kentucky 40601

Statewide consultant for Department of Education.

Mr. J. A. Prestridge, Director
Institute for Environmental Studies
University of Kentucky
Lexington, Kentucky 40506

Mr. Orville Stewart
Water Pollution Control Board
Frankfort, Kentucky 40601

Mr. Joseph Higdon, Director
Western Region, Kentucky Tuberculosis and Respiratory Disease Association
P. O. Box 137
322 West 5th Street
Owensboro, Kentucky 42301

Special presentation concerning air, health, and pollution. Brochure material available in large orders for study and use by school systems.

Dr. Jerry F. Howell, Coordinator
Environmental Education
Morehead State University
Morehead, Kentucky 40351

Twenty 30-minute video tapes on all aspects of the environment. Special material and expertise on E.E. Act of 1970. Funded under E.E. Act for 1971 and 1972.

MICHIGAN

STATE E.E. CONTACT:

Jack W. Kammeraad
Science and Environmental Education Specialist
State Department of Education
Lansing, Michigan 48902
(517) 373-1484

Rod Smith
Supervisor of Education and Training
Division of Information and Education
Department of Natural Resources
Lansing, Michigan 58903
(517) 373-1214

STATE PLAN ACTIVITIES:

The Governor's Office submitted a State Plan for funding in fiscal year 1972 and it was funded. Contact:

William Stapp
Chairman, Task Force on E.E.
c/o James Kellogg
Office of the Governor
84 Capitol Building
Lansing, Michigan 48903

The plan will: (1) establish broad-based state environmental education task force; (2) examine state E.E. needs and state resources; (3)formulate state E.E. goals and objectives, to be reevaluated over time; (4) give opportunity for input into all phases of the planning process by citizens including students, business, industry, organizations, institutions, and government; (5) develop and distribute a set of recommendations, identify priorities and provide a strategy for implementing each recommendation. The State plan has been completed and is presently being published.

E.E. PROGRAMS FUNDED FOR 1972:

School District of the City of Pontiac
B. C. VanKoughnett
350 Wide Track Drive East
Pontiac, Michigan 48058

This is an overall environmental education program affecting both school and community.

SCHOOL PROGRAMS AND ACTIVITIES:

Bentley Middle School
Harold Neitzke, Principal
1223 South Belsay Road
Flint, Michigan 48503
742-2610

Johnson Elementary
Carl Ewald, Principal
1114 South Genesee Road
Flint, Michigan 48503
742-1760

Dye Junior High
Verne Dresbach, Principal
G-5256 Corunna Road
Flint, Michigan 48504
732-1330

Mandeville Junior High
Rudy Mora, Principal
1024 West Bristol Road
Flint, Michigan 48507
239-8422

Carman Park Elementary
Mrs. Doris Cherry, Principal
3375 Van Campen Drive
Flint, Michigan 48507
235-5252

Gladys Dillon Elementary
Robert Spencer, Principal
1197 Schumacher Avenue
Flint, Michigan 48507
239-5666

Waterford Schools
Don Maxwell
6020 Pontiac Lake Road
Pontiac, Michigan
674-0444

Fenton Lawn Elementary
Ben Gellis, Principal
1181 West Scottwood Avenue
Flint, Michigan 48507
232-7449

Hoover Elementary
Dale E. Wolfe, Jr. Principal
2165 LaVelle Road
Flint, Michigan 48504
732-0350

Rankin Elementary
Mrs. Erma Evans, Principal
G-3459 Mundy Avenue
Swartz Creek, Michigan 48473
655-4697

Stalker Elementary
Dale E. Wolfe, Jr., Principal
G-3329 Burnell Avenue
Flint, Michigan 48504
239-4014

Van Slyke Elementary
Charles Jennings, Principal
2249 West Maple Avenue
Flint, Michigan 48507
238-1966

Woodland Elementary
Arnold Griffin, Principal
G-3493 Beveridge Road
Flint, Michigan 48504
732-3830

Carter Middle School
Eldon Ross, Principal
Bruce Fairweather, Assistant Principal
Upland Street
Clio, Michigan 48420
686-2300

Ann Arbor Public Schools
Mr. John C. Rosemergy
1220 Wells Street
Ann Arbor, Michigan 48104

Northwestern High School
Kenneth Fish, Principal
George Hurley, Assistant Principal
G-2138 West Carpenter Road
Flint, Michigan 48505
785-9826

Southwestern High School
Vencent J. Olszewski, Principal
Shelby J. Cummings, Deputy Principal
1420 Torrey Road
Flint, Michigan 48507
234-3623

Elms Elementary
Paul A. Dressel, Principal
6125 North Elms Road
Flushing, Michigan 48433
659-9312

Jack Haas Elementary
Carol Barden, Principal
7347 North Benesee Road
Genesee, Michigan 48437
686-2720

Goodrich High School
Roy U. Stacey, Principal
G-8029 Gale Road
Goodrich, Michigan 48438
636-2911

George Daly Junior High
Edward Foster, Principal
Richard Blewett, Assistant Principal
G-4470 Richfield Road
Flint, Michigan 48506
743-3880

Lakeville Memorial High
Erwin Griswold, Principal
12455 Wilson Road
Otisville, Michigan 48463
631-2215

Lakeville Middle School
Frans Luoma, Principal
G-11107 Washburn Road
Otisville, Michigan 48463
631-2215

Columbiaville Elementary
Olan Mishler, Principal
4775 Pine Street
Columbiaville, Michigan 48421
793-6717

Linden Elementary
Edward Pokornowski, Principal
400 South Bridge Street
Linden, Michigan 48451
735-4121

Johnson High School
Peter Fusi, Principal
8041 Neff Road
Mt. Morris, Michigan 48458
686-2370

Swartz Creek High School
John Egloff, Principal
Louie E. Medlin, Assistant Principal
8320 Ingalls Street
Swartz Creek, Michigan 48473
635-4441

Swartz Creek Middle School
David Webb, Principal
Carl Buck, Assistant Principal
8230 Crapo Street
Swartz Creek, Michigan 48473
635-4441

Michael Hanady High School
R. Barrie Fell, Principal
Harry Avesian, Assistant Principal
G-3223 West Carpenter Road
Flint, Michigan 48505
785-9006

Luke M. Powers Educational Center
Larry L. Lou[illegible], Principal
G-2040 West Carpenter Road
Flint, Michigan 48505
785-4741

Flint Christian
Keith Borgstrom, Principal
G-3196 West Pasadena Avenue
Flint, Michigan 48504
732-8310

Superintendents Advisory Committee for Environmental/Ecological Education
Grand Rapids Public Schools
143 Bostwick Avenue, N.E.
Grand Rapids, Michigan 49502

Dye Elementary
Martin Perono, Principal
Vern DuPraw, Assistant Principal
1174 Graham Road
Flint, Michigan 48504
732-5320

Atherton Junior High School
David Zittel
3354 S. Genessee Road
Flint, Michigan 48507
742-0400

Grant Public Schools
Melvin J. Rullman
311 E. State Road
Newago, Michigan 49327
834-5621

UNIVERSITY AND COLLEGE PROGRAMS AND ACTIVITIES:

Ecology Center
University of Michigan
(313) 761-3186

This group has five separate community activities:

1. Re-cycling.
2. Meeting place for ecology groups.
3. Community organic garden (federally funded).
4. Library (section in the public library - E.E. oriented.
5. Curbside pick up.

Saginaw Valley College
2250 Pierce Road
University Center, Michigan 48710

Saginaw Valley has been operating for the past 2½ years an environmental education program which has been directly interfaced with the community. The community has pledged $350,000 to the college for an Environmental Center.

Center for Environmental Studies
School of Architecture and Environmental Studies
University of Detroit
Detroit, Michigan
(313) 342-1000 Ext 249

Michigan State University Waste Control Authority

Introduction:

In 1970, a comprehensive study on the pollution problems that exist on the Michigan State University Campus was made by an engineering firm from St. Louis, Missouri. The conclusion of the study was that a university-wide agency be formed to deal with the existing pollution problems. Thus, the Waste Control Authority was formed in 1971.

The formation of the Waste Control Authority is significant for two reasons. First, it represented Michigan State University's concern that environmental pollution is a major issue in our society to deal with pollution problems. Secondly, the Waste Control Authority is the first such organization of its kind in the Country.

Personnel:

The Waste Control Authority consists of a board of nine members who represent various departments on Campus. The members are:

1.	Emery G. Foster, Chairman	Assistant Vice President for Business Operations
2.	Carl J. Eigenauer	Public Safety
3.	Burt Ferris	Grounds Maintenance
4.	Fred J. Moore	Member of E-QUAL
5.	Dr. Ronald Nelson	Animal Husbandry
6.	Dr. John P. Newman	Veterinary Medicine
7.	Mr. Robert Siefert	University Architect
8.	Dr. Howard Tanner	Natural Resources
9.	Dr. Ronald Wilson	Natural Science

Mark Rosenhaft is the Director and primary administrator of the Waste Control Authority and reports to the Executive Vice President of the University. His job is to oversee and coordinate the activities of the various University departments concerning environmental problems. His office, located in Room 496 Administration Building, is the center for the activities of the Waste Control Authority.

Function:

The function of the Waste Control Authority is to identify any pollution that exists on our Campus, and any future pollution problems that can be forseen. Once the problem is identified, the Waste Control Authority will take the necessary steps to correct the problem. Before any corrective steps are taken, however, the Waste Control Authority will research all the existing plans for the control of a particular type of pollution and decide on which plan would be most feasible. It is the desire of the Waste Control Authority to implement the newest and most effective equipment necessary to prevent environmental pollution.

Another equally important function of the Waste Control Authority is to cooperate with student groups on Campus that are concerned with the important questions about the ecology of our environment, especially those questions that are directly related to Michigan State University itself. Student and faculty plans for recycling of wastes on Campus will be considered by the Waste Control Authority. Student and faculty questions dealing with pollution problems on the Michigan State University Campus will be answered by the Waste Control Authority. Student and faculty proposals for corrective measures for pollution will also be studied by the Waste Control Authority to determine their worth.

In conclusion, the Waste Control Authority does not want to be isolated from the student body and the University faculty. In fact, it's effectiveness depends on student and faculty participation in the implementation of pollution abatement programs, and in the monitoring of pollution problems on Campus. Complaints may be sometimes necessary to draw attention to some previously overlooked pollution problem. All suggestions or complaints should be addressed to the Waste Control Authority, 496 Administration Building, telephone number 355-1826.

Pollution Problems of Concern to the Waste Control Authority:

1. Air-borne wastes
2. Water-borne wastes
3. Solid wastes
4. Chemical wastes
5. Pathogenic wastes
6. Radioactive wastes
7. Animal wastes
8. Hospital wastes

Future Goals:

It is true that the Michigan State University Waste Control Authority is a new concept in waste control. For this reason, there may be many trial and error endeavors involved with the initial programs of the Authority. This is good, because a final goal of the Waste Control Authority is to initiate new and practical waste control programs into society. Thus, the Waste Control Authority will serve as a blueprint to which other universities or communities in the country can turn to for guidance in setting up their own programs for waste control. It is hoped that the Michigan State University Waste Control Authority will serve as a catalyst for the formation of a regional plan of waste control in the Lansing area, or even the State of Michigan. It is the Director's belief that because of the nature of waste - its ability to move from one community to another via the air or water - a regional plan for waste control would be the most effective plan of all.

"To be satisfied with yesterday's solution to today's problems will most certainly lead to disaster for the community and the nation." (Vaughn, 1968, Environmental Protection Agency)

GROUPS AND AGENCIES WITH INTEREST IN E.E.:

Keep Southfield Beautiful Inc.
23505 Lee Lane
Southfield, Michigan 48075

Affiliated with Keep America Beautiful

Michigan Wildlife Foundation
Box 2235
2101 Wood Street
Lansing, Michigan 48911

Blandford Nature Center
Grand Rapids Public Museum
1715 Hillburn Avenue, N.W.
Grand Rapids, Michigan 49504
Curator: Mary Jane Dockeray
(616) 453-6192

Keep Michigan Beautiful, Inc.
28165 Greenfield Road
Southfield, Michigan 48076
Executive Director: Mrs. Leland Smith
(313) 557-8433

Environmental Field Centers Inc
5778 Hobart Street
Detroit, Michigan 48202
Mildred Smith (313) 873-0327
William Hindle (313) 884-4444

William G. Milliken, Governor
Department of Natural Resources
Stevens T. Mason Building
Lansing, Michigan 48926

On February 15 and 16, 1973, the Michigan Natural Resources Council held its annual conference in East Lansing. This is a consortium of 60-plus organizations that includes universities, industrial corporations, governmental agencies, natural resources-oriented societies (Audubon), consumer and producer associations, the 100,000 member Michigan United Conservation Clubs, federal agencies, and other groups with a great diversity of interest.

Michigan Student Environmental Confederation
409 Seymour Avenue
Lansing, Michigan
E.E. Specialist: Don Albrecht
(517) 484-7421

During the course of its existence MSEC (since Nov 1970) has built up a direct working relationship with over 130 environmental organizations, including student and citizen groups.

Michigan E.E. Association
Lansing, Michigan

Hobart Street Environmental Field Center
Detroit, Michigan

Michigan Population Council
Birmingham, Michigan

Zero Population Growth
East Lansing, Michigan

Environmental Law Society
Ann Arbor, Michigan

Fenner Arboretum
Lansing, Michigan

Chippewa Nature Center
Midland, Michigan

Houghton High School Ecology Club
Houghton, Michigan

E.E. Committee
Genesee County

Exists in cooperation with Genesee Intermediate School District, chaired by a curriculum consultant from the Intermediate Office.

Thunder Bay Environmental Council

A volunteer citizen group which organized to promote environmental quality in Northeastern Michigan.

Jackson County Environmental Headquarters

Michigan Tuberculosis and Respiratory Disease Association
Lansing, Michigan

Sierra Club
Lansing, Michigan

Michigan Committee for Environmental Information
Robert L. Burnap, Director
P. O. Box 2281
Grand Rapids, Michigan 49501
(308) 459-8281

The Committee is a non-profit, public service, and educational organization dedicated to organizing professional people from many disciplines to seek out and disseminate the best data and soundest judgements on "Spaceship Earth" to the citizens. It offers a solid, independent source of facts and opinions about actions that affect environmental quality. It is one of SIPI's affiliated science information centers.

Michigan Student Environmental Confederation, Inc.
409 Seymour Street
Lansing, Michigan 48933
(517) 484-7421

It acts as a liaison between what is going on in the legislature and state government offices and with the myriad student and citizen projects and activities. The six MSEC staff members come from widely different college backgrounds. A major activity involves publishing EARTH BEAT every two weeks. Education concerning Michigan's environment is another major activity. The bulk of their activities are supported through private donations. It offers help to: find environmental films, set up discussion groups, locate and arrange for speakers, influence legislation, arrange assemblies, make available teaching aides, organize an Action Council, find information on new and varied topics, learn about issues, provide important dates for state and national affairs, read about current state issues and problems.

Institute for Environmental Quality
2200 N. Campus Blvd
University of Michigan
Ann Arbor, Michigan 48105

Established by Regents in March 1970 with funds provided by the Rockefeller Foundation, "Its purpose is to provide initial support for scholars and students interested in new and interdisciplinary approaches to environmental problems" Its Director is assisted by a Policy Committee composed of seven vice-presidents and deans and by an Advisory Committee composed of ten faculty members and four graduate students representing various academic units.

"In keeping with its objective of stimulating interdisciplinary teaching, training, and research. . . the Institute grants fellowships to highly qualified advanced students, supports establishment of new faculty positions, and provides initial funding for research projects." Also the Institute in interested in encouraging broad approaches to environmental problems through support of new inter-student and inter-faculty forums and seminars.

Director: Stanley A. Cain, Professor of Conservation

Michigan United Conservation Clubs
James L. Rouman, Executive Director
1120 East Oakland Avenue
P. O. Box 2235
Lansing, Michigan 48911
(517) 489-2417

The organization was founded in order to further advance the cause of conservation in all its phases, and to perpetuate and conserve the fish, game, mineral, soil, water and forest resources of the state. Its goal

is to so manage the use of all natural resources that this generation and posterity will receive the maximum benefit from the same.

Michigan Wildlife Foundation
1120 E. Oakland Avenue
Lansing, Michigan 48911
(517) 489-2417
President: Louis McGregor

"The sole purpose of the MWF is its dedication to the task of conservation education." A non-profit, non-partisan organization.

Or contact: Paul Wendler, Vice President
48 Bretton Place
Saginaw, Michigan

American Society of Limnology and Oceanography, Incorporated
W. K. Kellogg, Secretary
Biological Station
Michigan State University
Hickory Corners, Michigan 49060
(616) 671-5144

The Society is comprised of concerned professionals who are dedicated to the promotion of interest and research in the aquatic sciences. Members are especially concerned with wise and effective use of the world's aquatic resources.

Lake Erie Clean-Up Committee
John Chascsa, President
3003 11th Street
Detroit Beach
Monroe, Michigan 48161
(313) 242-3579

National Sanitation Foundation
2355 W. Stadium Blvd
Ann Arbor, Michigan 48103
(313) 663-8341

A non-official and non-commercial agency incorporated under Michigan law, devoted to research, education, and service; it functions as a medium in which business, industry, official regulatory agencies and the public can confront issues of environmental concern together. It is most widely known for its role in developing standards and criteria for products and services. NSF welcomes public health officials to

get copies of their Standards and Criteria and to use it as a clearinghouse on matters relating to environmental quality; educators to exchange ideas and information on E.E.; editors and journalists who want to use it as an environmental resource center; manufacturers with inquiries regarding products and services relating to public health and sanitation. Their experience and facilities and methodology are available to any group, public or private, that sees an environmental problem and seeks help in finding a solution.

Air Pollution Control Section
Department of Public Health
3500 N. Logan Street
Lansing, Michigan 48906

Department of Natural Resources
Mason Building
Lansing, Michigan 48926

State Department of Education
Lansing, Michigan 48902

Water Resources Commission
Mason Building
Lansing, Michigan 48926

Water resources and State water pollution control programs.

Morgan Elementary School
Jo Ann Burgess
Utica Community School System
53800 Mound Road
Utica, Michigan 48087

Nature Center Inc.
7000 N. Westnedge Avenue
Kalamazoo, Michigan 49007
Contact: Diane D. Worden

Center for Environmental Study
Exhibitors Building
Grand Rapids, Michigan 49502
458-8589
Administrative Director: Peter M. Wege

A joint program with the National Sanitation Foundation, Ann Arbor; Edward L. Stockton, Environmental Quality Project Director. "A non-profit organization dedicated to the preservation, protection and improvement of the environment through public information, research, and service." Doing a three year study of environmental needs of the Grand Rapids area.

Biological Society of America
Dr. John Cantlon, Representative
Michigan State University
East Lansing, Michigan 48823
(517) 355-1855

The Society is comprised of interested botanists, zoologists, geographers, geologists, meteorologists, soil scientists, agronomists, range specialists, sociologists, and other professionals who are endeavoring to promote the scientific study of organisms in relation to their environment, both as individuals and as members of populations and communities. The Society also facilitites the exchange of ideas among those interested in ecology and offers an opportunity for presentation and criticism of research of members.

Conservation Education Reserve
Michigan Department of Natural Resources
7th Floor, Mason Building
Lansing, Michigan 48926

In 1967 the then Michigan Conservation Commission approved a resolution whereby private landowners would be recognized by the Michigan Department of Natural Resources for making their lands available to schools and youth groups for E.E. programs.

It is a partnership between the landowner, the school and youth group which provides the students and the educational plan, and the Department of Natural Resources which certifies the Reserve. The Department provides a consultant to help the landowner and the educators or youth leaders using the Reserve.

School District of the City of Wyandotte
639 Oak Street
Wyandotte, Michigan 48192

FY 1971 Title III Funds Allocated to E.E. - $247,351. "Strategies for E.E. - Project SEE"; Fred P. Davenport, Director.

A model E.E. program aimed at developing people who are consciously aware of their environment and are motivated to assume an active role in efforts to maintain and improve the environment will be implemented. The curriculum will include specially designed environmental education packages which will be utilized by selected students. Efforts will be made to involve the entire community in the project on a continuing basis. University personnel will assist in the preservice and inservice environmental education of teachers.

American Association for Conservation Information
Russell McKee, Associate Editor
c/o Department of Natural Resources
Lansing, Michigan 48926
(517) 373-1214

The AACI is a conference of state agencies and Canadian provincial agencies dealing with conservation and natural resource issues. The conference is held annually to discuss programs, policies, standards, and trends in conservation. The association publishes a summary of annual proceedings as well as a bimonthly newsletter.

Center for Urban Studies
Dr. Robert B. Smock, Director
Dearborn Campus
University of Michigan
Dearborn, Michigan
(313) 271-1480

The Center was established in order to provide a focus for urban service programs of the University system. The staff includes specialists trained in sociology, economics, political science, urban planning, and mathematics who together with graduate students conduct research in social and economic projects in the metropolitan area of Detroit.

RESOURCE MATERIALS AVAILABLE:

EARTH BEAT - a newsletter
Michigan Student Environmental Confederation Inc.
409 Seymour Street
Lansing, Michigan 48933

An 8-12 page newspaper tabloid carrying current state and national news, comments, reports, games, reviews, photos, educational and legislative news. It is mailed throughout Michigan to 650 subscribers and hand carried to Michigan legislators.

Newsletters:

of the Michigan E.E. Association
of the Outdoor Education Project
of the Michigan Science Teachers Association
and "Environmental Notes"

POSSIBLE RESOURCE PEOPLE:

Miss Barbara J. Pickens
c/o Dr. John Loss
School of Architecture
University of Detroit
Detroit, Michigan 48221

Did a study "Relationship Between Changes in Physical Dwelling Unit Environment and Social Environment" and presented a report on it at the December 1971 meeting of the American Association for the Advancement of Science.

Dr. Julian Smith
Professor of Education, Outdoor Education
Michigan State University
East Lansing, Michigan 48823

Graduate study program offered in Outdoor Education from the College of Education at this University. Two weeks outdoor Educational workshop is offered each year.

Sue Denig
Jackson County Environmental Center
145½ West Michigan
Jackson, Michigan 49202

Member of Ecology Centers Communications Council.

Mrs. William Klingbail
56 Hawthorne
Environmental Action Now
Grosse Pointe, Michigan 48326

Member of Ecology Centers Communications Council

Mr. Robert Vogel
Michigan Public Schools
Dexter, Michigan 48103

Mr. Byron Ashbaugh, Chief
Outdoor Education Services
Genessee County Department of Parks and Recreation
Flint, Michigan

Alfred Baratte
Northwestern High School
9395 Littlefield
Detroit, Michigan 48228

Richard E. Barnhart
Director, General Education Services Area
Department of Education
Lansing, Michigan 48902

Sent in LEA comments in 1972.

Gerald Kline
Institute for Social Research
University of Michigan

He works with Enviromedia in St. Paul, Minnesota. He holds a doctorate in Mass Communication from the School of Journalism and Mass Communication at the University of Minnesota, where he was an Assistant Professor and Director of Research for the School of Journalism and Mass Communication.

Morton Hilbert, Chairman
Department of Environmental and Industrial Helath
School of Public Health
University of Michigan
Ann Arbor, Michigan 48104
(313) 764-3188

David Cross, Science and E.E. Coordinator
Lansing School District
519 W. Kalamazoo Street
Lansing, Michigan 48933
(517) 485-8161 Ext 344

Myles Boylan, Director
School of Urban Planning and Landscape Architecture
Michigan State University
East Lansing, Michigan 48823
(517) 355-4464

George Stegnier, Director, E.E.
Lowell Area Schools
320 N. Monroe
Lowell, Michigan 49331

Edward J. Vander Velde
Geography Department
Michigan State University
East Lansing, Michigan

An instructor in geography. He gives a course, "Eco-Agriculture" with Dr. Ronald J. Horvath; it deals specifically with field research methods and techniques in geography. They have decided to teach the usual methods and techniques but "within the context of the crisis in our ecosystem and the need to develop alternative environmental uses for human survival." Students were invited to identify a number of researchable problems in the area, and one group formed around organic agriculture and gardening. The group is called AHMOAB (Albert Howard Memorial Organic Agriculture Brigade).

Walter F. Van Dien
Conservation Education Specialist
Region 3 Conservation Headquarters
408 Kalamazoo Plaza
Lansing, Michigan 48914

Joseph Stoltman
Department of Geography
Western Michigan University
Kalamazoo, Michigan 49001

John Nellor
Michigan State University
East Lansing, Michigan

William P. Hindle
1838 Hawthorne Road
Gross Pointe, Michigan
(313) 884-3120

Ann Stacy
Michigan Society of Architects
28 West Adams Avenue
Detroit, Michigan 48226

Walter Thompson, Urban Corps Intern
Human Resources Center
Pontiac Board of Education
60 Parkhurst Street
Pontiac, Michigan 48058
335-9461

Wayne William Schmidt
Wigen Morris Tincknell & Associates, Inc.
3444 Davenport Street
Saginaw, Michigan 48602

Jim Melocke
Detroit Chapter AIA
8335 E. Jefferson
Detroit, Michigan 48214

Jean Odle
Human Resources Center
Pontiac Board of Education
60 Parkhurst Street
Pontiac, Michigan 49058
335-9461

Calvin Oppenheim, Teacher
Human Resources Center
Pontiac Board of Education
60 Parkhurst Street
Pontiac, Michigan 48058
335-9461

Thor Petersen, Director
Human Resources Center
60 Parkhurst Street
Pontiac, Michigan 48058
335-9461 Ext 51, 52

Russel Wilson
School of Education
University of Michigan

Diane D. Worden
Nature Center Inc.
7000 N. Westnedge Avenue
Kalamazoo, Michigan 49007

Lee Quinn
Coordinator of Health, Physical Education and Outdoor Education
Department of Education
Lansing, Michigan 48902

Ed Rydell, Science Resource Teacher
Human Resources Center
Pontiac Board of Education
60 Parkhurst Street
Pontiac, Michigan 48058
335-9461 Ext 40

Betty Pfeffer, Teacher
Human Resources Center
Pontiac Board of Education
60 Parkhurst Street
Pontiac, Michigan 48058
335-9461

June Wilson
School of Education
University of Michigan

Elaine Waldman
School of Education
University of Michigan

John E. Kenney
Sanitary Engineering Consultant
Ann Arbor, Michigan

Mr. John C. Rosemergy
1220 Wells Street
Ann Arbor Public Schools
Ann Arbor, Michigan

Rachel Kaplan
University of Michigan
Ann Arbor, Michigan 48104

Cecil Ursprung or William Kopper
ENACT Ecology Center
417 Detroit Street
Ann Arbor, Michigan 48104
(313) 761-3186

Member of Ecology Center Communications Council . It was funded under E.E. Act as a community environmental education project, 1971. Director, William Kopper.

Mrs. Harriette Brooks, Principal
Instruction and Curriculum Development
Human Resources Center
Pontiac Board of Education
600arkhurst Street
Pontiac, Michigan 48058
335-9461 Ext 41 42

Joel Goldsteen
University of Detroit
School of Architecture and Environmental Study
4001 W. McNichols
Detroit, Michigan 48221

Mr. Lee D. Beatty
Contract Officer
260 Research Administration Building
University of Michigan
Ann Arbor, Michigan 48103
(313) 764-3188

Funded under the E.E. Act 1971-72; involved in curriculum development.

Robert Hilbert
Delta College

Ronald Lippitt
Professor of Sociology and Psychology
University of Michigan
Ann Arbor, Michigan

He is Research Program Director for Institute for Social Research, Ann Arbor. He has had a long and successful career in the area of group process, human interaction and communication and leadership training.

James Swan
Lecturer in Resource Planning and Conservation
School of Natural Resources
Ann Arbor, Michigan

Dr. Julian Brandou
Director, Science and Math Teaching Center
Michigan State University
East Lansing, Michigan

Lawrence Ephriam Jr., Producer
WTVS, Channel 56
Detroit, Michigan

Producer of a weekly environmental segment.

Geoffrey Lanning
Professor of Law
Wayne State University Law School

In charge of the environmental law program at Wayne State, and is Chairman of Wayne State University Environmental Committee charged with developing an E.E. program for the University.

Dr. James Butcher
Assistant Dean College of Natural Science
Director of Education for the
Center for Environmental Quality
Grand Rapids, Michigan

Dr. Shirley Brehm
Associate Professor, Science Education
Specialist in Methods and Material Development for E.E.
Grand Rapids, Michigan

Olga Madar, Vice President and Director
Department of Conservation and Resource Development
International Union, United Automobile,
Aerospace and Agricultural Implement Workers of America - UAW
8000 E. Jefferson
Detroit, Michigan 48214

James Doyle
Luke M. Powers High School
Flint, Michigan

John Hugo
Northwestern High School
Flint, Michigan

Flenowyn Joens
Genesee Intermediate S/D
Flint, Michigan

Felix Lehmkuhle
Luke M. Powers High School
Flint, Michigan

Dr. Arvo Lohela
Genesee Intermediate S/D
Flint, Michigan

Douglas Chapman
Michigan State University
Cooperative Extension Service
Flint, Michigan

Gary McDaniel
Central High School
Flint, Michigan

Adrienne Shieck
Johnson High School
Mt. Morris, Michigan

Sister Margaret Urban
Luke M. Powers High School
Flint, Michigan

Dr. Kendall B. Cox
University of Michigan
Flint, Michigan

James Mindorff
Rankin Elementary
Flint, Michigan

Hugo Pinti
Flint Community Schools
Flint, Michigan

Robert Stafford
Genesee Intermediate S/D
Flint, Michigan

Vincent Van Roeyen
Beecher High School
Flint, Michigan

David Williams
Westwood Heights Schools
Flint, Michigan

June Wilson
Genesee Intermediate S/D
Flint, Michigan

Byron Ashbaugh
For-Mar Nature Preserve
Flint, Michigan

Dan Gajewski
Daly Jr. High School
Flint, Michigan

Kenneth Gempel
Bendle Public Schools
Flint, Michigan

Ed Pokornowski
Linden Elementary
Linden, Michigan

Carl Stamm
Soil Conservation District
Flint, Michigan

Gladys Dillon
Flint Community Schools
Flint, Michigan

Lloyd Mitchell
Daly Jr. High School
Flint, Michigan

Dr. Chester Wilson
Genesee Community College
Flint, Michigan

Miss Helen Shaver
Fair Winds Girl Scout Council
Flint, Michigan

Mrs. Robert Shepard
Swartz Creek Middle School
Swartz Creek, Michigan

Jack Teegarden
Boy Scouts of America
Flint, Michigan

Norman Wing
Burroughs House
Flint, Michigan

Mark Rosenhaft, Director
Michigan State University Waste Control Authority
496 Administration Building
East Lansing, Michigan 48823

Robert Luebke
Environmental Coordinator
Michigan State University Waste Control Authority
496 Administration Building
East Lansing, Michigan 48823

The following is the Planning Group for Michigan State Plan:

William Stapp (Chairman)
Professor of E.E.
University of Michigan
Ann Arbor, Michigan

Rodney R. Smith (Vice Chairman)
Supervisor of Education and Training
Michigan Department of Natural Resources
State Department of Natural Resources
Lansing, Michigan

Don Albrecht
E.E. Specialist
Michigan Student Environmental Federation
East Lansing, Michigan

Paul Cousino
Science high school teacher
Dexter, Michigan

Randall L. Davis
Student, E.E.
University of Michigan
Ann Arbor, Michigan

James Gilliland
U.S. Steel Worker
AFL-CIO Environmental Chairman
Wyandotte, Michigan

Barbara Horn
Elementary teacher (6th grade)
Grosse Pointe, Michigan

Dr. Peggy Miller
Michigan Department of Education
Lansing, Michigan

Dr. E. J. McClendon
School of Education
University of Michigan
Plymouth, Michigan

Sam M. Stephenson
Chief, Consultation, Evaluation and Training Section
Division of Community Environmental Health
Bureau of Environmental Health
Michigan Department of Public Health
Lansing, Michigan

William Veeser
Upper Peninsula Power Company
Dollar Bay, Michigan

Billy H. Conn
Superintendent
Ingham-Eaton Catholic Schools
Lansing, Michigan

Senator David A. Plawecki
Dearborn Heights, Michigan

Charles Supercynski
Instructor, Gogebic Community College
Ironwood, Michigan

Wilson Kispert
Biology teacher
Cass Technical High School
Detroit, Michigan

State Representative Raymond Baker
Farmington, Michigan

Dr. Paul Housepian
Science Coordinator
Detroit Public Schools
Detroit, Michigan

Leroy Hyter
Science teacher
MacKenzie High School
Detroit, Michigan

Joseph Kilpatrick
Principal, Cherry Knoll Elementary School
Traverse City, Michigan

Jack W. Kammeraad
Science and Environmental Education Specialist
State Department of Education
Lansing, Michigan 48902

MINNESOTA

STATE E.E. CONTACT:

John Miller
E.E. Program Coordinator
Department of Education
644 Capitol Square Building
550 Cedar Street
St. Paul, Minnesota 55101
(612) 296-4069

STATE PLAN ACTIVITIES:

In 1969 the Minnesota State legislature enacted a law requiring the Minnesota Departments of Education and Natural Resources to prepare a program of environmental education for elementary and secondary schools in the State. In 1972, funds were awarded under the E.E. Act for the development of a state plan. For more information contact:

Dr. William Miles, Chairman
Minnesota Environmental Education Council
c/o Ronald J. Laliberte
State Department of Education
St. Paul, Minnesota

UNIVERSITY AND COLLEGE PROGRAMS AND ACTIVITIES:

Upper Mississippi River Environmental Studies Corporation
Dr. Calvin R. Fremling, President
Pasteur Hall
Winona State College
Winona, Minnesota 55987
(507) 457-2095

Three Winona Colleges - Winona State College, St. Mary's College, and the College of St. Teresa - have formed a non-profit corporation in order to establish a large cooperative river facility to be used for research and teaching throughout the three schools. The facility will be situated near Winona, Minnesota.

River Research Foundation
Dr. Calvin R. Fremling
Professor of Biology
Winona State College
Winona, Minnesota 55987
(507) 457-2095

The Foundation maintains a hydrobiology station on the Mississippi River which is located just below the U.S. Army Corps of Engineers lock at Fountain City. The station is used for research and study by members of the faculty as well as by students of Winona State College.

The Biology Department at St. Mary's College at Winona received FY 72 monies under the E.E. Act for the training of inservice education personnel at the university level. Rory Vose is project director.

Mr. Greg Shadduck
c/o Dr. Allan H. Humphreys
Department of Elementary Education
University of Minnesota
Minneapolis, Minnesota 55455

This student prepared curriculum materials, "Development of Environmental Studies Blocks for High School Students," as a project and reported on them at the December 1971 meeting of the American Association for the Advancement of Science.

GROUPS AND AGENCIES WITH INTEREST IN E.E.:

Wood Lake Nature Center
City of Richfield
6700 Portland Avenue
Naturalist: Don Fondrick
(612) 861-4507

Minnesota Environmental Control Citizens Association
Central Manor
26 E. Exchange
St. Paul, Minnesota 55101
(612) 222-2998

A non-profit organization concentrating on action to prevent environmental exploitation. Evaluates and publicizes problems and dangers of pollution; alerts public to the necessity for active participation in the protection of natural resources. The Association received FY 1972 monies under the E.E. Act for the development of a process curriculum for the community. Marilyn Feser is the project director.

Metro Clean Air Committee
1829 Portland Avenue
Minneapolis, Minnesota 55404
Director: Sandra Knudson
(612) 333-5463

Arrowhead Environmental Education Information

The Committee was organized by the Agricultural Extension Service in April of 1968, to improve the methods by which school systems could obtain help in environmental education, to provide an organizational structure to bring local and state-wide resource knowledge to north-eastern Minnesota schools in environmental education, and to coordinate educational efforts with resource management agencies, public conservation groups, universities and colleges with the public school system's need for environmental education.

Membership of this committee includes:

Duluth Junior League
Duluth Park Department
Silver Bay School System
U.S. Forest Service
Duluth Board of Education
Erie Mining Company
Board of Education, Hibbing
United Northern Sportsmen
Northern Environmental Council
University Biology Club
Minnesota Power and Light
Northwest Paper Company
Two Harbors School System
Duluth Diocesan Office of Education
Environmental Learning Center, Issabella
Carlton County Environmental Education Committee
Students for Environmental Defense
Eveleth Board of Education
Izaac Walton League
Northeast Forest Experiment Station
Cook County School System
St. Louis County Planning and Zoning Department
Minnesota Department of Natural Resources, Division of Lands and Forestry
Minnesota Department of Natural Resources, Division of Soils and Waters
Minnesota Department of Natural Resources, Division of Game and Fish
Department of Interior, Water Lab

Northern Environmental Council
601 Christie Building
Duluth, Minnesota 55802
(218) 727-2424

NOREC's primary function is to provide a service center for member organizations and individuals throughout a region comprised of upper Minnesota, Wisconsis, Michigan, North Dakota, and South Dakota. "The Council's role is to provide its members with the knowledge needed for positive problem solving on issues which effect the environment." The Council puts out "Policy Research Papers."

Minnesota Public Interest Research Group (MPIRG)
2418 University Avenue, S.E.
Minneapolis, Minnesota 55414
(612) 376-7554

A PIRG group which has been organized here - a committee inspired by Ralph Nader. It is the goal of MPIRG "to combine the concerns and enthusiasm of students with the training and experience of professionals - scientists and lawyers - and by using an educational format to protect and advocate the public interest in these areas: environment and ecological concerns, resource and land-use planning, protection of natural areas, occupational safety and health, racial and sexual discrimination, and other similar long-range problems of Minnesota."

Minnesota Pollution Control Agency
717 Delaware Street, S.E.
Minneapolis, Minnesota 55440
(612) 378-1320
Executive Director: Grant Merritt

Sierra Club
North Star Chapter
P. O. Box 80004
St. Paul, Minnesota 55108

Minnesota Committee for Environmental Information
P. O. Box 14207
University Station
Minneapolis, Minnesota 55414

The Committee is one of the Scientists Institute for Public Information science information committees.

Minnesota Association for Conservation Education, Incorporated
Jack Mauritz, President
Hennepin County Park Reserve
Rt. 1, Box 32
Maple Plain, Minnesota 55359

The Association was created "to cooperate with existing organizations, agencies, and/or institutions in the stimulation and promotion of conservation education and the wise use of natural resources in addition to the promotion of conservation education."

Midwest Environmental Education and Research Association (MEERA)
295 Summit Avenue
St. Paul, Minnesota 55102
(612) 222-3350

Member of Ecology Center Communications Council.

Northern States Power Company
Nathan Haw, Manager of Environmental Information and Education
Minneapolis, Minnesota 55401

Friends of the Wilderness
William H. Magie, Executive Secretary
3515 East Fourth Street
Duluth, Minnesota 55804
(218) 724-7227

Friends of the Wilderness is a non-profit organization which was founded in order to coordinate the volunteer efforts of thousands of individuals and hundreds of organizations in the preservation of the wilderness character of the Boundary Waters Canoe Area of the Superior National Forest.

Creative Educational Society, Inc.
Product Information
515 N. Front Street
Mankato, Minnesota 56001

Environmental Education Center
Isabella, Minnesota

Minnesota Environmental Control Citizens Association (MECCA)
Chairwoman, education committee: Marilyn Feser

A group of citizens that does research in environmental problems. Makes appearances at hearings, takes legal suit action against polluters, helps to educate the citizenry about environmental problems, and assists schools in educational plans.

Twin City Area Urban Corps
John Atkinson, Director
1603 Chicago Avenue, South
Minneapolis, Minnesota 55404
(612) 348-6967

Sponsors E.E. Programs, among others.

Minnesota Arts & Sciences Museum
30 East 10th Street
St. Paul, Minnesota 55101

A division within the Minnesota Council of Arts and Sciences. The Museum operates a Science Museum, operates a Nature center (Lee and Rose Warner Nature Center) that takes students to the center for trail experiences in nature studies, cooperates with the schools in providing in-school programs in science, drama, poetry, etc, offers workshops to teachers in Nature Study, and offers classes in Nature Study, Art, Photography etc.during the summer to school students.

State of Minnesota Department of Natural Resources
Roger Grosslein, Consultant in Environmental Education

Community Design Center of Minnesota
118 E. 26th Street
Minneapolis, Minnesota 55404
Executive Director: Thomas Walz
(612) 827-2608

Environmental Conservation Library (ECOL)
Minneapolis Public Labrary
300 Nicoliet Mall
Minneapolis, Minnesota 55401
Librarian: Julia Copeland
(612) 372-6609

A new special library within the public library designated by the 1971 legislature (State) as a state center for environmental information and supported by both public and private funds.

Minnesota Environmental Sciences Foundation, Inc.
5400 Glenwood Avenue
Minneapolis, Minnesota 55422
James H. Leslie

Received FY 1972 monies under the E.E. Act for the training of teachers and community organizations to utilize environmental education techniques and materials.

Environmental Library of Minnesota, Inc.
Diane Legg
1222 4th Street, S.E.
Minneapolis, Minnesota

Received FY 1972 monies under the E.E. Act for the dissemination of curriculum materials to the community.

Pollution Control Agency
717 Delaware Avenue, S.E.
Minneapolis, Minnesota 55440

Administers the State statutes covering water pollution, air pollution, solid waste control, and related land use.

Clean Air, Clear Water - Unlimited
Route 1
South St. Paul, Minnesota 55075

Works to inform the public of many serious environmental problems confronting man. Programs include participation at regulatory agency hearing, legislative activity at the state level, research scholarship on pollution problems, and publication of a newsletter.

Ecology Placement Service
1711 Lincoln Avenue
St. Paul, Minnesota
Jim Dunlop
Jim Holm

Environmedia Inc.
2642 University Avenue
St. Paul, Minnesota 55114
(612) 645-9356

A non-profit research organization "engaged in interdisciplinary programming, planning, and design for the human environment." It represents the integration and synthesis of two processes: environment and communication.

Minneapolis Public Library, Environmental Conservation Library (ECOL)
300 Nicollet Mall
Minneapolis, Minnesota

The library received FY 1972 funds under the E.E. Act for the development of supplemental curriculum materials for use by the general public. Julia Copeland is project director. They have worked with the Department of Education, Public Library Section of St. Paul in setting up a special Environmental Conservation Library, which it houses and operates. The special library serves the people of the entire state of Minnesota, and does not limit its use.

RESOURCE MATERIALS AVAILABLE:

Mounds View Schools, District No. 621

Available curriculum materials:

Science Curriculum Guide, Grades 10-12, Vol. II.
Earth Science Curriculum and Resource Guide, Grades 7-12, Vol I.
Earth Science Curriculum and Resource Guide, Vol II.
Environmental Education Curriculum, Grades 10-12, Teacher's Resource Guide.
Environmental Education Curriculum, Grades 7-9, Teacher's Resource Guide.

The Instructor Publications, Inc
Department 1014
P. O. Box 6108
Duluth, Minnesota 55806

Now available are two poster sets with accompanying teacher's manuals and a handbook of activities for environmental studies. ECOLOGY POSTERS - 12 large (12½ by 16") display posters graphically illustrate basic concepts and ecological cycles operating in the natural environment. Each set is $3.50; order #750.

ECO-PROBLEM POSTERS - 12 giant (16 by 25") posters, printed on white board in two colors and a 16 page teachers guide. Each poster presents an attention getting photograph that illustrates a specific Eco-Problem. Opposite the photo, several factors contributing to the problem are

illustrated and explained. Each set is $3.50; order #753.

Also available: Outdoor Activities for Environmental Studies - a 48 page book of field tested activities in monitoring environmental features. $1 35 each; order #369.

Creative Educational Society, Inc.
Product Information
515 N. Front Street
Mankato, Minnesota 56001

Minnesota Earth Journal
317 Cedar Avenue
Minneapolis, Minnesota

A non-profit organization which puts out the Minnesota Earth Journal at $3.00 a subscription (12 issues) or 25¢ at the newstand.

NASCO Nature Study Aids
Red Wing, Minnesota 55606

Curriculum Materials (52 units)

Golden Valley Environmental Science Center
Mr. Richard Myshak
5400 Glenwood Avenue
Minneapolis, Minnesota 55422

POSSIBLE RESOURCE PEOPLE:

Richard Barthelemy
Education Director of Natural History
University of Minnesota
(612) 373-3193

Arlyn Kline
Professor of Education
Mankato State College
Mankato, Minnesota

Has directed E.E. activities and studies, and has written and developed E.E. materials.

Dean Abrahamson
Associate Professor of Anatomy and Laboratory Medicine
University of Minnesota

Founder and former Chairman of the Minnesota Committee for Environmental Information and Vice-Chairman of the Scientists' Institute.

David Bailey
Gustavus Adolphus College

Consultant to Mounds View project curruculum materials development.

Stuart Bay

An Associate with ENVIRONMEDIA in St. Paul. An award-winning film-maker who teaches photography, film and an introduction to visual communication at the University of Minnesota.

Edmund C. Bray
Golden Valley Environmental Center

Consultant to Mounds View project curriculum materials development.

Richard Myshak
Executive Director
Minnesota Science Foundation, Inc.
5400 Glenwood Avenue
Golden Valley, Minnesota 54422

Howard Peterson
Orono Schools
Consultant to Mounds View project curriculum materials development.

Roger Walker
Hamline University

Consultant to Mounds View project materials development.

Brian Wessel
Assistant Planner
University of Minnesota

An architect who brings to ENVIRONMEDIA a strong background in urban and institutional planning. He has worked on campus developmental planning in the areas of housing, transit, and educational institute coordination. He also served a liaison function between the University and community agencies.

Roger Wangen, Social Studies Consultant
State Department of Education

Consultant to Mounds View project curriculum materials development.

Alan Robinette

An architect and natural resource specialist whose expertise grows out of numerous projects ranging from ecological inventory and interpretation, through site selection and feasibility studies to detail design and planning. Prior to joining ENVIRONMEDIA he worked for the Philadelphia firm of Wallace, McHarg, Roberts, and Todd, the University of Minnesota's Experimental City Project, and the Metropolitan Council of the Minneapolis-St. Paul area. He was involved as the national chairman of Task Force 70s - a project of the American Society of Landscape Architects intended to stimulate collective professional involvement in the environmental crisis.

Alan Brook
University of Minnesota

Consultant to Mounds View project curriculum materials development.

Dr. Eville Gorham
University of Minnesota

Consultant to Mounds View project curriculum materials development.

Roger Grosslein
State Department of Natural Resources

Consultant to Mounds View project curriculum materials development.

Roger House
Bloomington Schools

Consultant to Mounds View project curriculum materials development.

Laurence Kivens, Associate
ENVIRONMEDIA
St. Paul, Minnesota

A journalist whose interests lie in the fields of architecture, city planning, and communication research.

Robert Minish, Associate
ENVIRONMEDIA
St. Paul, Minnesota

His work in the field of environmental law includes participation in court actions seeking to prevent the construction of a freeway through Minnehaha Park in Minneapolis and to preserve the Boundary Waters Canoe Area from mineral exploration.

MISSISSIPPI

STATE E.E. CONTACT:

Mr. James Hancock
Advisor of E.E.
Division of Instruction
P. O. Box 771
Jackson, Mississippi 39205
(601) 354-6965

Dr. Isadore L. Sonnier
Associate Professor of Science Education
University of Southern Mississippi
Oxford, Mississippi
(601) 266-7213

Dr. Jack W. Carrol
Environmental Specialist
Cooperative Extension Service
P. O. Box 5406
Mississippi State, Mississippi 39762

STATE PLAN ACTIVITIES:

The modified plan will be sent for governmental approval - legislative and gubernatorial. After this implementation procedure, the plan will be reviewed one final time. Projections for this date are sometime late in 1972. The plan includes guidelines for E.E. in the state for all segments of the population. There will also be a data reference center to provide central clearinghouse for E.E. materials.

E.E. FUNDED PROGRAMS FOR 1972:

Fowden Maxwell
Entomology Department
Mississippi State University
P. O. Box EM
State College, Mississippi 39762

The development of a process curriculum based on integrated pest control.

SCHOOL PROGRAMS AND ACTIVITIES:

Technician Training: The Mississippi Air and Water Pollution Control trains operators already employed by them to run their new pollution control machines. The program was initially funded by the Department of Labor with a grant of $105,000 but the funding has now been taken over by the State government.

Nonformal Education
Soil Conservation Service
Post Office 610
Jackson, Mississippi 39205
(601) 948-7821

The Soil Conservation Service prepares different information kits for women's clubs, school children, girl and boy scouts, garden clubs, etc., informing these people about conservation problems such as soil erosion and chemicals in the soil. They also offer speakers and 20 different slide scenes on wildlife areas throughout the State.

Cooperative Extension Service
P. O. Box 5406
Mississippi State, Mississippi 39762

U.S. Forest Service
P. O. Box 1291
Jackson, Mississippi 39205

UNIVERSITY AND COLLEGE PROGRAMS AND ACTIVITIES:

Institute for Space and Environmental Sciences and Engineering
Charles W. Bouchillon, Director
Mississippi State University
State College, Mississippi 39762
(601) 325-4915

ISESE was established for the promotion, development, and administration of programs of research which are multidisciplinary in nature. Emphasis is presently focused upon development of research programs in ecological and environmental sciences, remote sensing, data systems, and data management.

Plans are being made for offering multidisciplinary courses at undergraduate and graduate levels, especially for education majors.

Rust College
Interdisciplinary Explorations Program
Division of Freshman Studies
Mrs. Alberta M. Lindsey, Chairman of Freshman Studies
Holly Springs, Mississippi

In the summer of 1967, the Faculty and administrators of this college inaugurated the Interdisciplinary Explorations approach to learning

Dr. Harold Hein, Director
Teacher's Conservation Workshop
University of Mississippi

About 45-50 teachers each summer from northern section of Mississippi are provided scholarships to attend 2 weeks of workshop activities (includes many aspects of environmental concerns as well as conservation of natural resources). Cooperative effort is manifested by participating agencies, businesses and institutions. (5th year).

Delta State College
Mr. Melbourne Miller, Director
Teacher's Conservation Workshop

71 teachers participated in the first session during the summer of 1973. About one half of the participants received scholarships similar in structure to the one above.

Mississippi Forestry Association
Cooperative Extension Service
University of Mississippi Forest Lands
Mississippi State Department of Education
Ben Davis
Executive Director of Mississippi Forestry Association
1111 Standard Life Bldg
Jackson, Mississippi 34205

Natchez Trace Parkway
John Mohlhenrich, Chief
Park Interpreter
Rt. 1, NT - 143
Tupelo, Mississippi 38801

Three ESA with camping facilities - held day camps at several sites providing environmental studies for each camper. Cooperative effort with several groups.

GROUPS AND AGENCIES WITH INTEREST IN E.E.:

Northeast Mississippi Resource Conservation and Development Project
Thomas Pounds, Chariman

Natchez Trace National Park Service
Tupelo, Mississippi
Bruce Black, Acting Superintendent
John Mohlhenrich, Naturalist

Committee for Leaving the Environment of America Natural (CLEAN)
P. O. Box 103
Starkville, Mississippi 39759
Glenn Liming, Chairman

POSSIBLE RESOURCE PEOPLE:

Dr. Harold Hein
Professor of Education
University of Mississippi
Oxford, Mississippi
(601) 232-7117

Dr. Hein directs a Conservation Education workshop for about 45 teachers. Courses include soil, water, wildlife management, forestry, and sociological aspects of conservation. The program is funded by local wood-using industries.

Dr. Charles Brent
Faculty Advisor
Protect Your Environment
University of Mississippi
Box 314 Southern Station
Hattiesburg, Mississippi
(601) 266-7212

Mr. Ben Davis
Mississippi Forestry Association
Jackson, Mississippi
(601) 354-4936

Dr. Harold T. White
510 Lamar Building
Jackson, Mississippi

Member of National Advisory Council on E.E. President, Northeast Mississippi Junior College. Besides being an educator for a number of years, he also works for organizations such as the Mississippi Economic Council, the Appalachian Regional Commission, and the Northeast Mississippi Planning and Development District, to maintain ecological balance.

Mr. Freddie Jordan
Mississippi Forest Commission
Robert E. Lee Bldg.
Jackson, Mississippi 39205

Dr. John M. King, Director
Mississippi Park Commission
Robert E. Lee Bldg.
Jackson, Mississippi 39205

NORTH CAROLINA

STATE E.E. CONTACT:

Paul H. Taylor
Director, Environmental Education
Department of Public Instruction
Room 284
Raleigh, North Carolina 27611

STATE PLAN ACTIVITIES:

The North Carolina state plan, funded by OEE for 1972, will: disseminate E.E. materials, information and programs. They will focus on three major areas of activity: (1) program development, (2) agency coordination, (3) public information.

ENVIRONMENTAL EDUCATION PROGRAMS FUNDED FOR 1972:

Art Hurow
University of North Carolina
Chapel Hill, North Carolina

The program will develop curriculum materials based on the relationship between population and the environment for use by community colleges.

SCHOOL PROGRAMS & ACTIVITIES:

FY 1971 Title III Funds allocated to:
Carteret County Board of Education
Courthouse Annex
Box 600
Beaufort, North Carolina 28516

"School Community Cooperative Environmental Studies Project"
Director, T. Lenwood Lee

A program designed to promote self-directed and investigation-oriented learning which molds schooling with education in the "real life" of the community and the total environment by placing students in actual situations to observe the functioning of the socioeconomic system will be instituted. Three classes of juniors and seniors of "moderate abilities and ambitions" will be placed in a full-year, half-day elective course replacing their regular English, social studies, and science

program in order to conduct individual and group field research in the community. Necessary skill development in these areas will be acquired through the research/reporting techniques, and equivalent credit will be granted. A control group will be utilized. A school-community advisory board, on which students will represent the major school involvement, will be formed.

A High School Course in Marine Ecology
Unit 2: Ecosystems by Judith M. Spitsber
Regional Marine Science Project
Carteret County Public Schools
Beaufort, North Carolina 28516

The second in series of 4 units containing preliminary edition of lectures, lab exercises and field trips as used in Carteret County Public Schools, adapted from many sources to provide guidelines for teachers and reference materials for students.

Supplementary Educational Center
1636 Parkview Circle
Salisbury, North Carolina 28144
626-3462
Director: Nancy Raynor

Purposes: "to advance creativity in education and to provide unusual and varied programs in nature study and natural science, local and regional history, space science and visual fine art."

GROUPS & AGENCIES WITH INTEREST IN E.E.:

Triangle Universities Consortium on Air Pollution
An Association of Duke University, North Carolina State University at Raleigh and the University of North Carolina at Chapel Hill
Chairman: Professor Arthur C. Stern
School of Public Health
University of North Carolina
Chapel Hill, North Carolina 27514

Purpose: "To facilitate and coordinate joint and cooperative action by and among the Triangle Universities in education, research, and public service endeavors relating to air pollution..." It was founded in January, 1970.

Wake Forest Consortium
Program Director: Dr. John Dimmick
919-725-9711

This is an E.E. project for 29 countries West North Carolina.

Water Resources Research Institute
Professor David H. Howells, Director

The primary concerns of the Water Resources Research Institute are to promote, develop, and coordinate water resources research which is responsive to the state, regional, and national water resources problems. The Institute welcomes the participation of interested faculty and students of the University in such projects.

Conservation Council of North Carolina
Wallace Kaufman, President
P.O. Box 36
Bynum, North Carolina 27228

The Council was created to participate in and coordinate local, state, and regional programs of conservation and conservation education. Members publicize public and private matters affecting the health and well-being of citizens through past, present, or proposed changes in the natural environment of the state and region.

Durham Ecos
Durham, North Carolina

Has received money from the Sierra Club for nonlegislature activities.

Environmental Education Center
13 Veterans Drive
Oteen, North Carolina 28805
Contact: Dr. Larry Liggett

Nature Science Museum
Reynolda Village
Winston-Salem, North Carolina 27106
725-0591

Curriculum materials are under development here. Presently involved in a pilot program designed to test the feasibility of incorporating units into the elementary curriculum in Winston/Salem/Forsyth County Schools.

Institute for Environmental Health Studies
Dr. Daniel A. Okun, Director
University of North Carolina
Chapel Hill, North Carolina 27514
(919) 966-1171

The Institute provides an organization within the University for developing ways and means to increase the number and improve the quality of graduate students who are preparing for careers in teaching, research, and practice in various fields of environmental health. Workers are often scientists, engineers, or physicians who have gone beyond their specialty and have undertaken further study in environmental health.

Cellu-Products Company

A paper recycling mill conducts tours of its facilities for groups and individuals and encourages the public to "come and see for yourself". Visitors are shown both the companies recycling operations and its extensive water treatment facilities.

Mr. Joe C. Matthews
Government Center
Winston-Salem, North Carolina 27101

Member of Ecology Centers Communications Council

Department of Water and Air Resources
P.O. Box 27048
Raleigh, North Carolina 27611

POSSIBLE RESOURCE PEOPLE:

Carl Zebel
Environmental Protection Agency
Research Triangle Park
North Carolina 27711

Wrote concerning what educators and their students should know about air pollution for a National Association of Biology Teachers Publication.

Mary Dawn Liston
Davidson, North Carolina 28036

Free-lance Environmental Education Consultant. Worked on Michigan state plan proposal submitted Jan. 28, 1972 to OEE. (was funded)

Harry Kramer
Air Training Headquarters
EPA
Raleigh, North Carolina
919-549-8221

Dr. Theodore R. Speigner
Division of Resource-Use Education
North Carolina Central University
Durham, North Carolina
919-682-2171

Dean Painter
Pitt Technical Institute
Greenville, North Carolina 27834

Mrs. Mary Beth Durner
Environmental Education Center
13 Veterans Drive
Oteen, North Carolina 28805

Dr. Larry Liggett
Environmental Education Center
13 Veterans Drive
Oteen, North Carolina 28805

OHIO

STATE CONTACT:

Gene Knight, Supervisor
Environmental Education
State Department of Education
65 South Front Street
Columbus, OH 43215
(614) 466-3224

STATE PLAN:

The State Department of Education has organized a State Advisory Committee to develop a state plan for environmental education. The Advisory Committee is made up mostly of state education officials, but it has a small task force collecting local or community input. Research and development of curriculum materials is now being developed to complement the state plan.

LEGISLATION:

At this time no bills have been introduced that directly affect educational programs through ecology. However, there are three bills which could affect Environmental Education in the future:

S. B. 33 - Create an Ohio Commission on the Environment.

H. B. 71 - Establish a Department of Environmental Quality.

H. B. 140 - Establish a Joint Legislation Committee to Oversee the Condition of the Environment.

There is a bill now being drafted which would revise original educational statutes so that they would include environmental education. This bill is being spearheaded by the Governor's Task Force on Environmental Quality. The bill would also include a clause which would establish a State Environmental Protection Agency.

FUNDED PROJECTS FOR 1972:

Judith Schultz
University of Cincinnati
9555 Plainfield Road
Cincinnati, Ohio 45236

Program for the training of secondary teachers in the use of interdisciplinary approach to the relationship between population and the environment.

Joseph Chadbourne
Institute for Environmental Education
9811 Euclid Avenue
Cleveland, Ohio 44106

Demonstration of a model secondary program using the monitoring of a watershed as a vehicle for environmental education.

Lowell F. Bernard
Cleveland Health Museum
9811 Euclid Avenue
Cleveland, Ohio 44106

For the training of students and teachers in the Tilton approach to environmental studies.

Ann Thomas, Project Director
Environmental Clearinghouse
One Stranahan Square
Toledo, Ohio 43603

Pilot volunteer based environmental clearinghouse to coordinate local environmental education activities and disseminate environmental information to the local community.

SCHOOL ACTIVITIES:

Cleveland Horticultural Program
in Public Schools
Mr. Herbert G. Myers, Director

Various types of programs are being carried out.

Nature Center
Canton Public Schools
Canton, Ohio

Contact: William Rohr
Science and Math Consultant

Center for the Development of Environmental Curriculum
Dennis Wint, Director
Willoughby, Ohio

Toledo Public Schools
Elm and Manhattan Streets
Toledo, Ohio 43608

In October of 1970, the Toledo Board of Education authorized the establishment of a broad based school-community committee to conceptualize and design an Environmental Education program (K-12). In the fall of 1971 the Environmental Education Program was integrated into the curriculum of four innter-city schools. The Board of Education employed four University of Michigan students to serve as Environmental Education Consultants to four pilot schools on a part-time basis to assist in the establishment of the program, to evaluate his acceptance by the school-community, and to make recommendations regarding ways to improve upon its success and acceptance.

Contemporary Arts Center
115 East 5th Street
Cincinnati, Ohio 45202
Pope Coleman, Acting Director
(513) 721-0390

An art education resource located in the central business district of Cincinnati. It has a regional interest and a twenty year history of commitment to urban Man-Made Environment projects. Presently, the CAC is conducting a pilot Man-Made Environment teacher training project with the public school system of Cincinnati. "It would like to introduce the new Man-Made Environmental curriculum into existing art education programs in a three-state metropolitan area. Cincinnati Public School Art Teachers are participating in a seventh grade program in Environmental Education, "Our Man-Made Environment," developed by the Group for Environmental Education and sponsored by the American Institute of Architects. A further more informal program is being conducted with elementary school children in the Forest Hills School District.

UNIVERSITY AND COLLEGE ACTIVITIES:

Institute of Environmental Sciences
Miami University
(513) 529-2732

School of Natural Resources
The Ohio State University
Columbus, Ohio 43210
(614) 422-3589

Provides an interdisciplinary approach to Environmental Education and natural resource management curricula.

Eco-Federation Data Bank
And Education Center
Lakeland Community College
State Route 306 and Interstate 90
Kirtland, Ohio 44094
(216) 951-1000

Denison University Biological Reserve
Robert W. Alrutz, Director
Denison University
Granville, Ohio 43023
(614) 582-9181

The Denison Biological Reserve was established in order to provide both educational and research facilities for study of the effects of human activity on natural systems. Graduate students participate in programs in environmental education as well as in ecological research.

Environmental Studies Center
Dr. Robert Bieri, Chairman
Antioch College
Yellow Springs, Ohio 45387
(513) 767-7331, Extension 475

Environmental Studies Center began as a concerned student-faculty group about four years ago. Today it comprises one of the four centers of the Antioch Science Institute. It encourages interdisciplinary studies, sponsors courses, and offers interdisciplinary environmental studies degrees. Students and faculty are involved in a wide range of local, regional, and national research and action. The Environmental Education Program was initiated by the Environmental Studies Center in

order to provide technical expertise and information on Environmental Issues to local Community action groups.

Environmental Studies Center
Dr. Raymond J. Endres, Director
Bowling Green State University
Bowling Green, Ohio 43402
(419) 372-2318

The Center was created in order to assemble information related to the study of human environmental problems and to make this available to those who are concerned with them; to encourage interdisciplinary research related to human environmental problems among the faculty and students of the University; to sponsor community service projects utilizing this research; and to assist faculty in developing research and community service project proposals related to the environmental problems.

Bowling Green State University
Environmental Studies Center
Bowling Green, Ohio 43404

Development of research and training programs that tie together learning and environmental problems, to be used in K-6 curriculum. In short, the program is an attempt to improve the instruction in grades K-6 in the area of Environmental studies.

University of Cincinnati
College of Design, Architecture,
And Art
Project Director, Department of Art
(513) 475-4143

Program is developing an art curriculum in environmental education to be used in local school systems K-12 and teacher training.

GROUPS AND AGENCIES WITH INTEREST IN ENVIRONMENTAL EDUCATION:

Dayton Museum of Natural History
2629 Ridge Avenue
Dayton, Ohio 45414
Executive Director: E. J. Koestner
(513) 275-7431

Involved with bringing environmental awareness to individuals and families; published "The Do-It-Yourself Environmental Handbook."

The Ohio Academy of Science
445 King Avenue
Columbus, Ohio 43201
Executive Director: John Melvin
(614) 299-9097

Has an Ecology Committee whose members are professors at Ohio colleges and universities.

Lake Erie Junior Nature and
Science Center
28728 Wolf Road
Bay Village, Ohio 44140
Director: Elberta Fleming
(216) 871-2900

The Environmental Education goals of the Center are programmed to meet the educational needs of all ages starting with preschool children, continuing through high school; it has trained environmental specialists, physical resources and teaching materials for Environmental Education programs.

Cincinnati Nature Center
4949 Tealtown Road
Milford, Ohio 45150
Director: John Oney
(513) 831-1711

Ohio Environmental Council
248 Old West Wilson Bridge Road
Worthington, Ohio 43085

Glen Helen Outdoor Education Center
Dayton, Ohio

Contemporary Arts Center
115 East 5th Street
Cincinnati, Ohio 45202
Acting Director: Pope Coleman
(513) 721-0390

Nature Study Headquarters
Burnet Woods
Cincinnati, Ohio

California Nature Preserve
Outdoor Education Area
5400 Kellogg Avenue
Cincinnati, Ohio

Environmental Action Groups
Yellow Springs, Ohio 45387

A focus for citizen involvement in environmental matters in Yellow Springs. It was formed in 1971 by a village councilman. Since its inception it has been involved in community education, household ecology, and an Environmental Newsletter as well as community action, activities such as earth week clean up and glass and paper recycling.

Environmental Clearinghouse, Inc.
Box 2125
One Stranahan Square
Toledo, Ohio 43603
Ann Thomas, Chairman

A non-profit organization whose main purposes are education coordination, and involvement; to educate and inform the general public on environmental matters, to coordinate existing groups, organizations, and efforts, and to promote, aid, and encourage community involvement on environmental affairs.

Joseph H. Chadbourne, President
Institute for Environmental Education
8911 Euclid Avenue
Cleveland Heights, Ohio 44106
(216) 231-5010
Alan McGowan, Vice President
Thomas W. Offutt, Vice President

The Institute is established to assist schools to plan, design, and carry out projects that can benefit local areas in Ohio. In Northeast Ohio, The Cuyahoga River Watershed Project offers initial and ongoing support services. The program grew out of concern of some high school students about water resources of Northeast Ohio. The Institute is now director and sponsor of the Cuyahoga River Watershed Project. A newly-formed corporation in the State of Ohio IEE is the successor to the Tilton Water Pollution program. Institute personnel have for the past three summers run a series of Environmental Education teacher-training workshops that have won national acclaim. IEE is now developing an update system for the Curriculum Activities Guide in Water Pollution called "Telefeed," which will allow participants to develop activities in all areas of environmental education, and have them circulated to all other participants. Subscribers to this system will get a monthly package of activities and updated materials.

William E. Scheele, Director
Cleveland Museum of Natural History
Wade Oval, University Circle
Cleveland, Ohio 44106

Council member of the American Association for the Advancement of Science (AAAS) Commission in Science Education. "Aims to maintain a public museum of natural history of the broadest possible scope, to educate all levels, and to conduct basic scientific research. The program includes a planetarium, display galleries, four sanctuaries totalling more than 1,000 acres, workshops, classrooms, research quarters, a living animal collection, a labelled nature trail in twelve woodland acres in the center of the city, a trailer museum, a distinguished speakers schedule, field trips throughout the U.S."

The Environmental Control Commission
Yellow Springs, Ohio 45387

Established in 1971 as an advisory body to the Village Council on environmental issues. Since its inception it has begun a study for a sewage treatment project.

Humatech Foundation
240 West South College
Yellow Springs, Ohio 45387
(513) 767-5891
Contact: Dr. Geoffrey Stanford

A non-profit corporation; objectives: "to coordinate resources of humanity, nature and technology for research and development of human environments, especially those which are ecologically regenerative in relation to Earth's biosphere, including systems for recycling of domestic wastes yielding organic plant foods, and to design and promote the broadest possible use of educational tools, structures and systems for public information concerning man's urgent need to understand nature and his dependent relationship to it, and the necessity of changing practices degenerative to biospheric balances and lifesystems upon which further human evolution and future survival depend."

Friends of Animals of Ohio
Mrs. Mary Ann Davis, Ecology Director
P.O. Box 314
Mentor, Ohio 44060

Albertus Magnus Biology Club
c/o Richard T. Gies
Lima Central Catholic High School
Lima, Ohio 45805

Waste Watchers Recycling Center
P.O. Box 4753
Station B
Columbus, Ohio 43202

United Animal Defenders, Inc.
Mrs. Betty D. Taylor
Environmental Action Director
4908 Swetland Boulevard
Richmond Heights, Ohio 44143
(216) 731-7288

Federal Water Quality Administration,
Regional Director
Ohio Basin Region
4676 Columbia Parkway
Cincinnati, Ohio 45226

Lake Erie Junior Nature and Science Center
Bay Village, Ohio

Allwood Audubon Center
Dayton, Ohio

Teacher-naturalists here have helped in preparation of teaching materials.

Ohio Parks and Recreation Association
Jack E. Miller, Executive Director
City Building
Springfield, Ohio 45501
(513) 325-8754

This organization attempts to work for the improvement of parks and recreation programs, services and facilities throughout the state of Ohio.

Youngstown Chapter Zero Population Growth
c/o Ralph Malmer
3732 South Raccoon Road
Canfield, Ohio 44406

Center for the Study of World Development
Brian Zakem, Executive Director
270 Calhoun Street
University of Cincinnati YMCA
Cincinnati, Ohio 45221

Adventure Ecology - Environmental
Education Television Project
Dr. Ken Light
Ohio University, ETSEO
4 1/2 West State Street
Athens, Ohio 45701
593-6572

Institute of Environmental Education
Cleveland Health Museum
8911 Euclid Avenue
Cleveland, Ohio 44103

The Institute of Environmental Education, housed at the Cleveland Health Museum, has developed over the last four years the materials, processes, techniques and manuals to analyze and monitor watersheds in order to determine their environmental quality index. The Ford Foundation, NSF, EPA, Office of Environmental Education and local private foundations have funded this effort to the tune of approximately $200,000.00. In Fiscal Year 1971, the Office of Environmental Education awarded $35,000.00 to IEE to further develop the watershed materials.

Mrs. Irene E. Lewis
Butler County Community Action Commission
119 South Front Street
Hamilton, Ohio 45011

In coperation with:

Dr. James Pelley
Miami University
Oxford, Ohio 45056
(513) 529-6825

Has undertaken the Roosevelt Community School Improvement Project which was initially funded by the Office of EE/HEW. Components of the project include improvement of the instructional program in E.E. in all schools of the target area, student involvement in recycling waste materials, a large scale community gardening project, development of a series of environmental awareness sites for use by school pupils and the public, field trips, clearance of condemned dwellings and conversion of space to recreational uses, community-wide clean up and beautification campaign, development of a long range plan for enhancing the environment of the community to include concerns for housing, land use, improved zoning, recreation, beautification, waste disposal, pollution control, and noise abatement.

Air Pollution Control League
of Greater Cincinnati
18 East 4th Street
Cincinnati, Ohio 45202
621-1669

The League is a non-profit organization which was incorporated January 29, 1906, under the laws of the State of Ohio.

ERIC
Dr. Robert W. Howe, Director
400 Lincoln Tower
The Ohio State University
Columbus, OH 43210
(614) 422-6717

There are 18 ERIC clearinghouses around the country, each with a basic contract with NIE. Every month ERIC puts out the RIE, Research in Education, a compilation of programs, reports, and educational materials, indexed, cross referenced, and abstracted. Also put our monthly is CIJE, Current Index to Journals in Education; a similar compilation of journal articles.

SMEAC

The Science, Math, and Environmental Education Clearinghouse handles environmental education. SMEAC has three newsletters: Science, Mathematics, and Environmental Education. The EE newsletter, published eight times a year, offers timely reviews and sources for information and it is available for no charge. The SMEAC center, through its state EE supervisors, can provide information on all ERIC programs. ERIC also enters into other contracts for reviews and evaluations of environmental education developments.

RESOURCE PERSONS:

Miss R. Joyce Whitley
320 Tower East
Shaker Heights, Ohio 44122
(216) 283-1330 or
(216) 955-4364

Member of National Advisory Council on Environmental Education. Member, National Board of American Institute of Planners. A land and city planner in her agency: Whitley and Whitley Architects and Planners, she is sought after as a consultant to national programs and as a member of national councils.

Jerome Sirlin, Professor
Environmental Studies
(513) 767-7331

William J. Gealy
Ohio State University
Columbus, Ohio 43210

Ms. Judith Schultz
10570 Fallis Road
Loveland, Ohio 45140

Member of National Advisory Council on Environmental Education; also
Professor of Biology
Raymond Walters College
9555 Plainfield Road
Cincinnati, Ohio 45236

Board Member and Chairman of Task Force on Population, Ohio Environmental Council

Dr. Robert E. Roth
School of Natural Resources
The Ohio State University
Columbus, Ohio 43210

Richard Parish
Cuyahoga Community College

Familiar with Man and Environment (Miami - Dade)

George Davis
The Ohio State University
Columbus, Ohio 43210

Writer for Environmental Studies

Alexander Cohen, Chief
National Noise Study
Bureau of Occupational Safety
and Health
Public Health Service
U.S. Department of HEW
Cincinnati, Ohio 45202

Mr. Joseph Chadbourne, President
Institute for Environmental Education
2803 Scarborough Road
Cleveland Heights, Ohio
(216) 831-2200

Funded under the E.E. Act. Since 1969, the Tilton School in New Hampshire has conducted summer workshops for the seventh and twelfth grade teachers and students who are committed to environmental instruction. The project, now a recipient of Federal funds under the title of the Institute for Environmental Education of the University School of Chagrin Fall, Ohio, will carry on with curriculum development efforts with these changes. The new curricula will devote equal attention to the humanities and social sciences, whereas the 1969-70 version addresses itself primarily to the biological and physical sciences. The new curricula will be developed by, and distributed to, a larger number of teachers and students than was previously possible. The new curricula will also be developed by a more diverse group; specifically teachers and students from predominatly black school systems will be enclisted as project participants.

Joe Chadbourne, with the offices of the Cleveland Health Museum, has developed materials for high school students and their own watershed for both biological and chemical content. They have trained over 300 students and teachers in their techniques and are developing a total northeast Ohio regional program based around the Cuyahoga River watershed.

Earl Finbar Murphy
Professor of Law
The Ohio State University
College of Law
1659 North High Street
Columbus, Ohio 43210

Member of the Executive Staff of the Citizen's Task Force on Environmental Protection.

Mrs. William Fleming
Lake Erie Junior Nature and
Science Center
28728 Wolfe Road
Bay Village, Ohio 44140
(216) 871-2900

Peter Junger
Case Western Reserve University
School of Law
Cleveland, Ohio

Laurence Gerckens
The Ohio State University
School of Architecture
Columbus, Ohio 43210

Alan Farkas, Executive Director
Citizen's Task Force on
Environmental Protection
Governor's Office
907 Departments Building
Columbus, Ohio 43215

Mrs. Louis Odiorne, President
Hunetch Foundation
250 W. S. College Street
Box 6
Yellow Springs, Ohio 45387
(513) 767-7852

A landscape architect, community planner. Member of 1971 International Youth Conference on the Human Environment.

David Hanselman
SCOPE
7417 Knollwood Drive
Dayton, Ohio 45432

Richard Tybout
The Ohio State University
Department of Economics
Columbus, Ohio 43210

Mr. Samuel S. Long
Health Planning Association
of Northwest Ohio
225 Allen at West Wayne
Maumee, Ohio 43437
(419) 893-0282

Miss Kathie Gifford
Environmental Clearing House, Inc.
One Stranahan Square, Room 141
Toledo, Ohio 43604
(419) 841-5664

Dr. Kenneth Light
Ohio University
Athens, Ohio
(614) 594-7227

Dr. Jim Barrow
Hiram College
Hiram, Ohio

Dr. Barrow is often referred to as America's Konrad Lorenz. He has an 80-acre farm outside of Hiram, Ohio on which he has done original behavioral studies on ducks, geese, other birds and mammals. Dr. Barrow in the past few years has been using biology students as resource people in the local secondary schools. The Jennings Foundation, local philanthropists, and the National Science Foundation have supported Dr. Barrow's basic scientific research.

Burt Spice
Outdoor Education Director
Toledo City Schools
Manhattan and Elm
Toledo, Ohio
(409) 729-5111

Lee R. McCurrin
Outdoor Education
Toledo City Schools
Manhattan and Elm
Toledo, Ohio

Dennis Wint
Willoughby East Lake City
School District
38106 Euclid Avenue
Willoughby, Ohio 44094
(216) 946-5000

Dan Zilko
Canton Ecology Center
218 Sixth Street, N.W.
Canton, Ohio 44708

Paul Knoop, Director
Aullwood Audubon Center
1000 Aullwood Road
Dayton, Ohio

Tri-District Outdoor Education
885 Evening Street
Worthington, Ohio 43085

Dean Freund, Director
Worthington Outdoor Education
600 West Dublin Granville Road
Worthington, Ohio 43085

Mick Fitzsimmons
Outdoor Education Director
Richland Rural Life Center
Mansfield City Schools
Mansfield, Ohio 44902

Robert Brown
Outdoor Education
Troy City Schools
630 East Main
Troy, Ohio 45373

Burt Spice
Outdoor Education
Toledo City Schools
Manhattan and Elm
Toledo, Ohio 43608

Robert Meadows
Outdoor Education
Akron City Schools
70 North Broadway
Akron, Ohio 44308

Jack R. Minger, President
Ohio Audubon Council
4036 Cypress, N.E.
Canton, Ohio 44705

Ronald Reed, Director
Mohican School in the Outdoors
Perrysville, Ohio 44864

Robert Mentzer
Assistant Superintendent
Licking County Schools
600 Mount Vernon Road
Newark, Ohio 43055

MATERIAL RESOURCES:

Sierra Club has prepared and published a prospectus of a land use plan along the Miami River in Ohio.

The Cuyahoga River, A Manual for the Environmental Study of a Real System, by W. B. Clapham, Junior, 1970, 81 pages, $2.00.

Available from: Department of Geology or University Bookstore
Case Western Reserve
Cleveland, Ohio 44106

"Do It Yourself Environmental Handbook" Published by the Dayton Museum of Natural History. The first part of the book is a 14 page action guide to give readers the overall picture of how we pollute. The remaining 60 pages are devoted to explaining how we can lessen our personal impact of the environment. PRICE - $1.95 - from the Museum.

SOUTH CAROLINA

STATE E.E. CONTACT:

Mrs. Alice Linder
State Science Consultant
801 Rutledge Building
Columbia, South Carolina 29201

STATE PLAN ACTIVITIES:

South Carolina has had since 1969 comprehensive Environmental Education curriculum guides in all its schools.

ENVIRONMENTAL EDUCATION PROGRAMS FUNDED FOR 1972:

Mrs. W. Croft Jennings
Columbia Environmental Coalition
Box 4701
Columbia, South Carolina 29201

SCHOOL PROGRAMS & ACTIVITIES:

Woodfern Environmental Center
Anderson School District 5
P.O. Box 439
Anderson, South Carolina 29621

In school year 1971-72, Anderson School District Five received a grant under Title III to develop an environmental ecological center. The facility is located on 45 acres on Twin State Lake Hartwell. It has been able to serve 270 pupils, teachers and community members per week.

Environmental Science
Miss Twig Tyler
Westside High School, Pearman Dairy Road
Anderson, South Carolina 29621
(803) 226-7696

UNIVERSITY & COLLEGE PROGRAMS & ACTIVITIES:

Clemson University

Clemson University is in the process of developing an outdoor education program as a part of its division of recreation and outdoor education. It is cooperating with the State Department of Education in its efforts to develop an awareness of environmental concerns.

GROUPS & AGENCIES WITH INTEREST IN E.E.:

Environmental Ecological Education Center
Mr. Jason E. Rucker, Jr., Director
Box 439
Anderson, South Carolina 29621

Implementation of People and Their Environment
Mrs. Alice Linder
Science Consultant
801 Rutledge Building
Columbia, South Carolina 29201

Greenville Environmental Education Program
Brice Latham, Environmental Education Consultant
Drawer 5575, Station B
Greenville, South Carolina 29606

Ocean Science Conceptual Program
Dr. Gary Awkerman, Director, Natural Sciences
3 Chisolm Street
Charleston, South Carolina 29403
Paul Teller, Assistant Director
(803) 722-8461

South Carolina Pollution Control Authority
Owen Building
1321 Lady Street
P.O. Box 11628
Columbia, South Carolina 29211

POSSIBLE RESOURCE PEOPLE:

Claud Barden
Robert Gould
Dean Carson
South Carolina Commission of Forestry

Mrs. Ruby Johnson
Charles McFaddin
Teachers, East Clarendon School

Cecil Main
Department of Elementary Education
Winthrop College
Rock Hill, South Carolina 29730

Mrs. Mamie Coker
5th grade classroom teacher, Gray Court
Member, NEA Task Force on E.E.

John W. Parris
Executive Director of South Carolina State Soil and Water Conservation Commission (appointed in 1972)
Member of South Carolina Conservation Education Council and director of State Wildlife Federation. Does work with conservation districts in the fields of youth involvement, sediment reduction programs, and land use planning.

South Carolina Forestry Association
P.O. Box 274
Columbia, South Carolina 29202
(803) 253-5324

University of South Carolina
Columbia, South Carolina 29208
John Deane
Director of the 1971 Pollution Symposium
(803) 777-4128

South Carolina Environmental Action, Inc.
P.O. Box 1008
Hilton Head Island 29928
Mr. O. D. Hack
(803) 785-3311

South Carolina Advisory Council for Conservation Education
Mr. F. E. DuBose, Chairman
P. O. Box 67
Trubeeville, South Carolina 29162

TENNESSEE

STATE E.E. CONTACT:

Mr. R. Jerry Rice
Specialist
Tennessee Department of Education
Cordell Hull Building
Nashville, Tennessee 37219
(615) 741-2421

STATE PLAN ACTIVITIES:

Joe Minor and the existing education department staff have formulated a state plan for environmental education. While there are no new personnel to handle the environmental education area, the present staff hopes that the new plan will coordinate programs throughout the state to improve the utilization of existing resources and materials.

E.E. PROGRAMS FUNDED FOR 1972:

Dr. Courtland S. Randall
EEP Director
P. O. Box 117
Oak Ridge Associated Universities
Oak Ridge, Tennessee 37830

Development of supplemental curriculum materials for use at the secondary level focusing on pesticide use.

Dr. Adrian Marie Hofstetter
Le Moyne-Owen College
807 Walker Ave.
Memphis, Tennessee 38126

Development of a process curriculum involving college students in community work.

SCHOOL PROGRAMS AND ACTIVITIES:

W. B. Randolph
Supervisor of Science
Hamilton County Public Schools
Chattanooga, Tennessee
(615) 265-8221

Elizabeth Roller
Outdoor Education Supervisor
Metropolitan Nashville Public Schools
2601 Bransford Avenue
Nashville, Tennessee 37204
(615) 255-8422

Tullahoma Outdoor Lab
James Kemp (also Ronald Murray, Ronald Coleman)
Tullahoma City Schools (Senior High)
Tullahoma, Tennessee 37388
(615) 648-6116

Mr. Ronald Childress
Teacher-Naturalist
Kingsport City Schools
1701 East Center Street
Kingsport, Tennessee 37664
(615) 245-3155

UNIVERSITY AND COLLEGE PROGRAMS AND ACTIVITIES:

Glen Ervin Peterson
Department of Biology
Memphis State University
Memphis, Tennessee 38111
(901) 321-1586

He has held many posts in biology related fields, and has interest in international aspects of education.

Dr. Randolph Shields
Maryville College Environmental Education Center
Townsend, Tennessee 37882
(615) 448-2211

Space Institute
Robert W. Kamm, Assistant to the Director
University of Tennessee
Tullahoma, Tennessee 37388
(615) 455-0631

The Space Institute offers graduate education, post doctoral study, research and continuing education in advanced engineering and scientific disciplines. Qualified applicants may pursue full and part time graduate study programs which lead to degrees of M.S. and Ph.D. Opportunities are available for study in conventional areas as well as for interdisciplinary study.

Nashville Committee for Scientific Information
Department of Chemistry
Vanderbilt University
Nashville, Tennessee 37203

One of SIPI's affiliated science information committees.

Dr. John Czirr, Director
Center for Teachers
Austin Peay State University
Clarksville, Tennessee 37040
(615) 648-6116

This is a preservice teacher training program for high school teachers leading to a degree in environmental science. Background courses range from the social and political sciences to physics and biology courses. Mr. Mayfield said his program emphasized learning problem solving techniques which could be used to cover a broad range of issues.

Mr. Lloyd Foster,Director
Tremont Environmental Education Center
Maryville College
Townsend, Tennessee 37882
(615) 448-2211

Maryville College runs an environmental education center. Two college professors conduct weekend workshops for secondary school teachers who then take over the teaching duties for their own students while they attend the center. The focus of the program is on getting the teachers aware of human ecology so they can involve the students.

GROUPS AND AGENCIES WITH INTEREST IN E.E.:

Dr. Karl B. Schnelle
Vanderbilt Engineering School
Vanderbilt University
Nashville, Tennessee 37235

American Institute of Architects
President of Nashville Chapter: Flem Smith

Environmental Action Council of Memphis
P. O. Box 4672
Memphis, Tennessee 38104
President: Howard Vogel
(901) 527-6641 Ext 577

Tennessee Children's Museums
Nashville and Chattanooga

Sierra Club
George Hornal
Nashville Chapter
Nashville, Tennessee

Tennessee Citizens for Wilderness Planning
President, William Russel
Oak Ridge National Laboratory
Liane Russell: Editor of Newsletter

Tennessee Ornithological Society
Ben Coffey, Jr.

Tennessee Environmental Council
Botanic Hall
Tennessee Botanical Gardens and Fine Arts Center
Cheek Road
Nashville, Tennessee 37205
Executive Director: Ruth Neff
(615) 356-3306

Some of the current projects include preservation of Savage Gulf and other endangered wilderness areas; preservation of Tennessee's scenic rivers; strengthening of the Tennessee Air Pollution Control law;

passage of an effective strip mining control law, and reclamation of abandoned mines; promotion of voluntary collections of paper, glass, and aluminum for recycling; evaluation of proposed TVA and Corps of Engineers projects in Tennessee.

Environmental Experiments Program
P. O. Box 117
Oak Ridge, Tennessee 37830
Courtland Randall, Director
(615) 483-8411 Ext 205

Dr. George Walter
Department of Public Health
621 Cordell Hull Building
Nashville, Tennessee 37219

State water pollution control program.

Mr. Peter Cohan, Executive Director
Cooperative Science Education Center, Inc.
156 Adams Lane
Oak Ridge, Tennessee 37830

The major role of this center in its subcontract with the Oak Ridge National Laboratory is to develop communication and educational programs that could serve as models for regional or national environmental awareness activities.

The Center has designed and developed two specific action programs which incorporate a number of components directed at informing a large target population about technological assessment and its role in solving environmental problems. Simultaneously they provide insight on the part of scientists and technologists at ORNL concerning the degree of awareness of technological impact on environmental problems as expressed by the target population.

The two major program areas are known as (1) Environmental Information Services, and (2) Environmental Awareness Workshops and Conferences. A monthly publication is provided to a large sample of the target population known as "Environmental Capsules." It provides simple, nontechnical coverage of local, state, and national activities related to the environment and technological assessment.

Specific information packages are being/have been developed. These packages are directed at instructional personnel, grades 1-12. Additional aspects of Information Services provide seminar programs for service clubs and related organizations with the specific intent of presenting an array of environmental problems, and documenting the questions, responses, and commentary of the participants in these

seminar programs. Regional and state awareness conferences are being organized to provide a series of statewide conferences directed at teachers and their supervisors.

The simulation problem developed by the Center is known as "Enviro County." It involves simulation of a regional planning commission, attempting to resolve a variety of problems concerning the economic, social, and environmental status of this imaginary county. The county depicts, in a three-dimensional way, a rural, suburban, urban interface, with all its attendant problems. A kit was developed providing an opportunity for interested teachers and secondary school pupils to develop their own regional simulation problem reflecting the locale in which they live and study.

Regional Awareness Conferences are designed to provide a series of informational programs for various members of the target population.

One of the major environmental awareness programs for teachers and pupils is known as the Statewide Air Quality Monitoring Program, involving a number of secondary teachers and their pupils from every county in Tennessee. The Center is cooperating with, and is being provided assistance by, the Atmospheric Sciences Research Center at Albany, New York.

Smoky Mountains Hiking Club
Leroy G. Fox, President
P. O. Box 1454
Knoxville, Tennessee 37901

The Club develops opportunities for the enjoyment of the outdoors such as hikes and outings and provides related social and educational opportunities. It encourages and teaches outdoor ethics as well as conservation of woods, waters and wildlife. It serves to acquaint the public with the beauty and grandeur of the Great Smokies and other area mountains in Tennessee.

Department of Conservation
James Bailey, Educational Director
2611 West End Avenue
Nashville, Tennessee
(615) 741-2661

Cooperative Science Education Center, Inc.
Center for In-Service Education
156 Adams Lane
Oak Ridge, Tennessee 37830
483-4391 or WATS line 1-800-362-9605 (no toll charge to State residents)
Executive Director: Peter Cohan
Program services: Kenneth E. Flatt
Informational assistance: Donna Jacobs

Member council of AAAS Commission in Science Education. The center is conducting project WASTE (Waste Assessment and Student Training Experiment.) It is part of The Environmental and Technology Assessment Program being carried out at the Oak Ridge National Laboratory.

They publish The Center Bulletin. Clifford G. Smith is editor.

Let's Keep Living Council
P. O. Box 5085 EKS
Johnson City, Tennessee 37601

Bays Mountain Park
Jack Gross
Route #4
Kingsport, Tennessee 37660
(615) 245-4192

Mr. Peter Cohan
Cooperative Science Education Center
156 Adams Lane
Oak Ridge, Tennessee 37830
(615) 483-4391

The CSEC is intended to be an information link between the general public and scientists and technologists and to provide environmental education and training for people in education programs. A simulation session called "Enviro County" involves various political, industrial, and educational people. The participants, a large model of Enviro County, assume these roles as different members of the planning commission. The purpose of the session is to show the participants the pressures put upon decision makers and to give them an understanding of the decision-making process. At the end of the session the group is given a score which indicates the effects of their decisions on the environment.

Another project conducted by CSEC was the Volunteer Air Monitoring Program (VAMP). Approximately 25,000 students throughout the state used inexpensive air monitoring devices provided by local industries and put together by volunteer workers. The students recorded data on weather conditions which were collected after one month. The CSEC publishes a monthly newsletter called "Environmental Capsule" which keeps its members informed of important issues. Funds are from the National Science Foundation.

David Sundberg
Director of Public Information
Oak Ridge National Laboratory
Box X
Oak Ridge, Tennessee 37838
(615) 483-8611

ORNL receives 80% of its funds from the AEC to carry out numerous scientific research activities. Most of its education projects are contracted to CSEC.

John Rice Irwin
Executive Director
Tennessee Appalachian Educational Cooperative
104 Kentucky Avenue
Oak Ridge, Tennessee 37830
(615) 482-3481

TAEC is a non-profit organization, founded in 1969, which provides educational opportunities for a seven school system. It has been interested in environmental education, and although its proposal calling for money to help develop a community education model was not funded, the organization is working on alternative ways to stay involved with environmental education.

Environmental Action Council of Oak Ridge
Robin Wallace
105 Monticello Toad
Oak Ridge, Tennessee
(615) 483-8611, Ext 35712

EACOR works at the community level to establish action programs such as setting up a recycling center and to provide speakers for local groups. It has an excellent newsletter, Environment 2000, which is concerned with affecting changes to improve the total environment.

Environmental Action Council of Memphis
c/o P. O. Box 4672
Crosstown Post Office
Memphis, Tennessee
Dr. Howard Vogel
(901) 527-6641

Dr. Vogel is the chairman of a very active group which is aimed at making the public aware of environmental issues. The group organized a meeting of the five Memphis mayorial candidates for the 1971 elections to discuss environmental issues. Another project started a recycling center in Memphis. Dr. Vogel was encouraged that public interest was being generated toward coping with environmental problems.

RESOURCE MATERIALS AVAILABLE:

Motive
Mr. Robert Maurer, Editor
P. O. Box 871
Nashville, Tennessee 37202
(615) 291-6930

This is a monthly magazine which exhibits special interest in publishing informative, stimulating articles on ecology within a general framework of articles, art, and poetry which illuminate the contemporary scene.

"What is the E.Q. of Your School?"
(Environmental Quality Manual)
Science Department
Nashville-Metro-Outdoor Education Department

Lib Roller, Consultant
2601 Bransford Ave.
Nashville, Tennessee 37213

"This mini-manual has been designed for the elementary school classrooms. The experiments can be done with little or no equipment. All areas of the curriculum can be involved in this attempt to help you and the children understand and evaluate the surrounding environment."

Contents: Air and water pollution activities, litter - survey and evaluation, land use, special problems (rat control, odors from factories, vacant houses, hazards) and related activities. About 50 pages.

POSSIBLE RESOURCE PEOPLE:

Judy Brown
Tennessee Society of Architecture
1808 W. End Building #401
Nashville Tennessee 37203

David Goodrich, Director
Tennessee Fish and Game Commission
Ellington Agricultural Center
Nashville, Tennessee 37220

Mr. James E. Ogul
EEP Coordinator
Oak Ridge Associated Universities
P. O. Box 117
Oak Ridge, Tennessee 37830

Contact for Oak Ridge projects.

William S. Shell, AIA
The School of Architecture
University of Tennessee
Knoxville, Tennessee 37916

Wesley Eckenfelder
Department of Environment and Water Resources Engineering
Vanderbilt University

Louise Pierce
Howard School
700 2nd Avenue South
Nashville, Tennessee 37210

Representative Victor Ashe
3709 Kingston Pike
Knoxville, Tennessee 37919
(615) 525-0338 or
(615) 584-7103

Member of National Advisory Council on E.E. Legislator who has sponsored conservation legislation, strengthening pollution control laws, and reforming election laws.

Roslyn Glasser
Conservation Education Specialist
Forestry, Fisheries and Wildlife Development
TVA
Norris, Tennessee 37828
(615) 637-0101 or
(615) 637-2296

Jonathan M. Wert
Educational Relations Officer
Division of Personnel
Tennessee Valley Authority
300-FH
Knoxville, Tennessee 37902

Peter Cohan, Executive Director
Cooperative Science Education Center, Inc.
156 Adams Lane
Oak Ridge, Tennessee 37830
(615) 483-4391

Lloyd Foster, Director
Tremont Park
Maryville College
Environmental Education Center
Townsend, Tennessee 37882

Dr. John Czirr
Center for Teachers
Austin Peay State University
Clarksville, Tennessee 37040
(615) 648-6116

Mr. James Kemp, Director
Tullahoma Outdoor Laboratory
Tullahoma City Schools
Tullahoma, Tennessee 37388
(615) 455-5421

Mr. Fred Johnson
Science Supervisor
Shelby County Schools
160 South Hollywood
Memphis, Tennessee 38112

Miss Elizabeth Roller
Outdoor Education Supervisor
Metropolitan Nashville Public Schools
2601 Bransford Avenue
Nashville, Tennessee 37204
(615) 747-5158

Mr. Jonathan Wert
Environmental Education Specialist
Tennessee Valley Authority
300-FM
Knoxville, Tennessee 37902
(615) 637-0101

Mr. Anthony Campbell
Executive Director
Tennessee Conservation League
2010 Church Street, Room 221
Nashville, Tennessee 37203

Dr. Ted James
Professor of Biology
University of Tennessee at Martin
Martin, Tennessee
(901) 587-7111

Mr. James Bailey
Educational Director
Department of Conservation
2611 West End Avenue
Nashville, Tennessee 37203

Mr. A. Randalls
Supervisor of Science
Metro Nashville Public Schools
2601 Bransford Avenue
Nashville, Tennessee 37204

Mr. W. B. Randolph
Supervisor of Science
Hamilton County Public Schools
317 Oak Street
Chattanooga, Tennessee 37403

Mr. William T. Conn
Science Supervisor
Memphis City Schools
2223 James Road
Memphis, Tennessee 38126

Mr. Bob Chambers
Supervisor of Science
Knox County Schools
Knoxville, Tennessee 37917

Dr. Bernard Benson
College of Education
University of Chattanooga
Chattanooga, Tennessee

Dr. Dean Stout
Science Supervisor
Knoxville City Schools
Knoxville, Tennessee 37917

Mr. E. E. Pitt
Curriculum Specialist
3100 Rossville Boulevard
Chattanooga, Tennessee 37407

Mr. Roger Duncan
Campbell County Schools
Jacksboro, Tennessee 37757

Dr. Ruth Neff, Executive Secretary
Tennessee Environmental Council
Tennessee Botanical Gardens
Cheek Road
Nahville, Tennessee 37205

Mrs. Barbara E. House
Executive Director
Upper East Tennessee Educational Cooperative
Room 208 - Science Hill High School
Johnson City, Tennessee 37601

Dr. Jerry Ayers
College of Education
Tennessee Technological University
Cookeville, Tennessee 38501

Dr. Karl B. Schnelle
Vanderbilt Engineering School
Vanderbilt University
Nashville, Tennessee 37235

Mr. Ronald Childress
Environmental Education Coordinator
Kingsport City Schools
1701 East Center Street
Kingsport, Tennessee 37664

Dr. Gene Gonsoulin, Head
Biology and Conservation
Volunteer State Community College
Gallatin, Tennessee 37066

Mr. William S. Busse
Executive Director
Tennessee Tuberculosis and RD Association
1717 West End Avenue
Nashville, Tennessee 37203

VIRGIN ISLANDS

UNIVERSITY AND COLLEGE ACTIVITIES

Norwell Harrigan, Acting Director
Caribbean Research Institute
College of the Virgin Islands
Box 1826
St. Thomas, Virgin Islands 00801

GROUP AND AGENCIES

Department of Health
P.O. Box 1442
St. Thomas, Virgin Islands 00801

Virgin Islands Conservation Society, Inc.
c/o Caribbean Research Institute
College of the Virgin Islands
St. Thomas, Virgin Islands 00801

(A nonprofit organization, affiliated with the National Wildlife Federation. Aims to encourage greater awareness of the value of natural resources, to coordinate conservation activities of concerned organizations, and promote legilsation fostering conservation.)

Island Resources Foundation
Box 4187
St. Thomas, Virgin Islands 00801
Dr. Edward L. Towle, President

League of Women Voters of the Virgin Islands
Box 4250
St. Thomas, Virgin Islands 00801
Environmental Quality Committee

Very active volunteer political organization on all governmental issues. Has history of successful action/public education in E.Q. Serves all three islands.

WISCONSIN

STATE E.E. CONTACT:

Mr. David Engleson, Specialist
Environmental Education
State Department of Public Instruction
Madison, Wisconsin 53702
(608) 266-3390

Mr. David Walker
Executive Secretary, Wisconsin Environmental Education Council
610 Langdon Street
University of Wisconsin
Madison, Wisconsin 53706

STATE PLAN ACTIVITIES:

A plan is being developed, currently at the point of first drafting, including twelve sectors (i.e. agribusiness, elementary education, higher education, implementation strategy also considered); public hearings Spring 1973 for the first draft. This is the plan which was drawn up Winter 1973. It must be approved by both the governor's advisory council and the governor himself. The plan should deal with making new priorities and assigning the proper groups, agencies, programs or individuals who could act on these new priorities.

E.E. PROGRAMS FUNDED FOR 1972:

William C. Kahl, Chairman
Wisconsin E.E. Council
c/o David Walker
610 Langdon Street
University of Wisconsin Extension
Madison, Winconsin 53706

Statewide evaluation and dissemination plan.

Robert Sorensen
Board of Vocational, Technical, and Adult Education, District #10
Moraine Park Technical Institute
VTEA 235 N. National Avenue
Fond-du-Lac, Wisconsin 54935

Vocational, Technical and Adult teachers training.

Rev Melvin Tracy
John F. Kennedy Prep. School
Box 109
St. Nazianz, Wisconsin 54323

Training of inservice high school teachers together with their students in an interdisciplinary approach to environmental education.

Dr. Richard Presnell
University of Wisconsin at Green Bay
Green Bay, Wisconsin 54302

The development of media materials for community environmental education.

Arthur H. Cothran
Wisconsin Vocational, Technical and Adult Education District #18
1019 S. Knowles Avenue
New Richmond, Wisconsin 54017

Development of a process curriculum for public employees engaged in water and sewage treatment plant operations.

SCHOOL PROGRAMS AND ACTIVITIES:

Franklin Schools' Forest Park E.E. Center

Developed for activity-centered, doing and solving education for students in K-12. Franklin Public Schools has developed a curriculum guide that can be used in conjunction with the center. Location: Forest Park Middle School, 8225 W. Forest Hill Avenue, Franklin, Wisconsin 53132. (414) 425-8700. Facility includes one-half mile of marked nature trails, four outdoor classrooms, demonstration plots, pond, marsh area, wetlands meadow, small pioneer forest area, hedgerows, wild pasture, wildlife viewing blinds. A current set of guidelines for scheduling class visits can be requested from: Mr. Karl Wegerbauer, Principal, Forest Park Middle School.

Miss Nancy Noeske, E.E. Corrdinator
Milwaukee Public Schools
P. O. Box Drawer 10K
Milwaukee, Wisconsin 53201

"Master Plan for E.E. in the Milwaukee Public Schools"
Richard Gousha, Director

Received $237,250 FY 1971 Title III Funds Allocated to E.E. A master plan for E.E. in the school system will be implemented. The program will include the following components: teacher leadership conference, television inservice workshop, curriculum development workshop, open-end grant program, field trip pilot program instrumentation program,

exceptional education/handicapped program and demonstration farm development program. Teachers selected for the leadership conference will coordinate various environmental education activities in their respective schools. Under the open-end grant program, students will be able to obtain money and assistance for innovative environmental education projects. The instrumentation program will consist of an open-ended school action program with funds available to the schools which suggest the most innovative ways of attacking specific environmental problems. Under the demonstration farm development program, students will work on a State-owned farm and study farm activities.

Madison Public Schools
Marvin Meissen
Department of Curriculum Development
545 W. Dayton Street
Madison, Wisconsin 53703

Alfred Block
Franklin Public Schools
Franklin, Wisconsin 53131

Alan Christel
Cameron Pulbic Schools
Cameron, Wisconsin 54822

Hugh Curtis
Wausau Public Schools
407 Grant Street
Wausau, Wisconsin 54901

Reedsburg Public Schools
Roger Popple
Reedsburg Sr. High School
Reedsburg, Wisconsin 54559

Richard Bliss
Environmental Science Center
Racine Public Schools
Racine, Wisconsin

ENVIRONMENTAL EDUCATION ORIENTED PROGRAMS IN WISCONSIN

Senior High School Programs

Abbotsford
Alma Center
Antigo
Athens
Barron
Beaver Dam (Wayland Academy)
Birchwood
Black River Falls
Bloomer
Bonduel
Bloomington
Brussels (Southern Door)
Chetek
Clayton
Cochrane-Fountain City
Cornell
Crandon
Eau Claire Memorial
Edgar
Fort Atkinson
Gale-Ettrick-Trempeleau
Germantown
Green Lake
Hammond
Hartland (Arrowhead)
Hillsboro
Horicon
Hortonville
Independence
Ithaca
Johnson Creek
Ladysmith
Madison East
Madison Memorial
Marshfield
McFarland
Merrill
Middleton
Milltown Unity
Milwaukee (University School)
Minocqua (Lakeland Union)
Monroe
Neenah
New London
Oak Creek
Oconomowoc
Orfordville
Plainfield (Tri-County)
Portage
Princeton
Racine Park
River Falls
Saint Nazianz (JFK Prep)
Seymour
Shawano
Sheboygan Falls
Stevens Point (Pacelli)
Sun Prairie
Superior
Suring
Verona
Viola (Kickapoo Area)
Viroqua
Wausau (Newman)
West Bend
Weyauwega
Whitefish Bay
Wisconsin Rapids
Wrightstown

Junior High School Programs

Arcadia
Clayton
Clinton
Franklin (Forest Park Middle)
Hortonville
Kettle Moraine (Dousman)
Kewaunee
Milltown (Unity)
Muskego
New Glarus
Superior
Verona
Weyerhauser
Wisconsin Rapids

Elementary School Programs

Denmark
Milltown (Unity)
Walworth Jt. Dist. #1
North Walworth Jt. #5

LaCrosse Public Schools Environmental Education Project
Contact: Dr. Leah Senff
Biology Department
Viterbo College
LaCrosse, Wisconsin

Mackenzie Environmental Education Center
Poynette, Wisconsin

Project ICE
Director, Robert Warpinski
CESA 9
1927 Main Street
Green Bay, Wisconsin 54302

UNIVERSITY AND COLLEGE PROGRAMS AND ACTIVITIES:

Professor Clay Schoenfeld, Chairman
University of Wisconsin
602 State Street
Madison, Wisconsin 53706
(608) 262-2116

CECES is an inter-college consortium of faculty members and students of ecology, education, and journalism. It serves to focus and facitlitate the work of the University in areas of environmental communication and education through instruction, research, and extension.

Dean
University of Wisconsin - Green Bay
Green Bay, Wisconsin 54302

Complete undergraduate program. Overall orientation and course on ecology and man's relation to nature and environment. Four colleges based on environmental themes. Three types of choices in regard to major - Environmental Problem, or Discipline, or field of knowledge, option, or collateral, professional minors or preprofessional program.

Institute for Environmental Studies
Professor Reid A. Bryson, Director
University of Wisconsin
Meteorology and Space Science Building
Madison, Wisconsin 53706
(608) 262-2860

The Institute was created in order to develop, coordinate, and encourage graduate research and training in environmental studies; to develop undergraduate curricula in environmental studies. IES is an interdisciplinary, inter-divisional campus-wide program of research and teaching with extension into all aspects of the man-environment system.

Dr. Daniel Trainer
Dean, College of Natural Resources
University of Wisconsin - Stevens Point
Stevens Point Wisconsin

Naturalist Training Program
Biology Department
University of Wisconsin - Extension
Madison, Wisconsin 53706

Wisconsin E.E. Inservice Program
David C. Engleson, Specialist
Environmental Education
Department of Public Instruction
1262 Langdon St
Madison, Wisconsin 55702

GROUPS AND AGENCIES WITH INTEREST IN E.E.:

Scientific Areas Preservation Council
Dr. Henry Kolka, Chairman
Geography Department
University of Wisconsin - Eau Claire
Eau Claire, Wisconsin

Environment Wisconsin
114 N. Carroll
Madison, Wisconsin 53703

M. N. Taylor, Executive Director
Environmental Center
Eagle River, Wisconsin

Environmental Education Council of Greater Milwaukee
Forest Stearns, President
Botany Department
University of Wisconsin - Milwaukee
Milwaukee, Wisconsin 53211

Schlitz-Audubon Nature Center
Don Danielson, Director
Milwaukee, Wisconsin

Department of Natural Resources
P. O. Box 450
Madison, Wisconsin 53701

Responsibilities include fish, game, forest, and parks management, forest fire control, control of air and water pollution, solid waste disposal, flood plain and shoreland zoning, water management and regulation, and long-range planning in the broad fields of outdoor recreation and natural resources.

Waukesha Cty Environmental Council
Mrs. Jerry Wuerslin, President
411 McCall Street
Waukesha, Winconsin 53186

Wisconsin Environmental Decade
John Neess, Director
Box 1105
Madison, Wisconsin 53703

Wisconsin Council for Conservation Education

A non-profit organization concerned with E.E., particularly at the elementary and secondary school level. It publishes a quarterly 12 page WCCE Newsletter which describes many printed materials and audio-visual aids useful in school programs plus much other useful information. Write to Marion Sutherland, WCCE Treasurer, 2615 Arboretum Lane, Madison, Wisconsin 53713 for membership-subscription information.

Wisconsin Environmental Education Council
David Walker, Executive Secretary
521 Lowell Hall
University of Wisconsin
Madison Wisconsin 53706

The Council is charged "to develop a state plan for E.E., to provide technical assistance to state and local agencies and citizen groups in the development of E.E. programs, to assist in the broad coordination of E.E. activities in Wisconsin, to expend and distribute funds allocated to the Council, to implement other E.E. activities required by Wisconsin Statutes and to recommend such changes in the Wisconsin Statutes with respect to E.E. as the public interest may require."

American Society of Agronomy, Inc.
Matthias Stelly, Executive Secretary
677 South Segoe Road
Madison, Wisconsin 53711
(608) 238-4222

The Society is a non-profit educational and scientific corporation which strives to promote human welfare through advancing the acquisition and dissemination of scientific knowledge regarding the use, improvement, and interrelationships of plants, soils, and environments.

UMW Cedarburg Bog Field Station
Mrs. Millicent Ficken, Director
Rt. 1, Box 216
Saukville, Wisconsin 53080
(414) 675-6844

Zero Population Growth
Wisconsin State University
Stevens Point Chapter
Stevens Point, Wisconsin 54481

Political Interest Groups
Mrs. Lois Zahorik
4515 N. Woodburn Street
Milwaukee, Wisconsin 53211
(414) 964-8665

Earth Action
Mark Leitner
4141 N. 64 Street
Milwaukee, Wisconsin 53218

Conservation Education, Inc.
Court House
Manitowoc, Wisconsin

Citizens Natural Resources Association of Wisconsin, Incorporated
Mrs. Harold G. Kruse, Secretary
Hickory Hill Farm
Loganville, Wisconsin 53943
(608) 727-2289

also: Donald Kindschi, M.D.
Prairie du Sac, Wisconsin 53578

The Association is convinced that man is part of nature and that the community and state of Wisconsin must retain and create as many natural elements as possible in order to be a healthy, sound, beautiful, and prosperous place. It seeks to involve citizens in most serious thought, effort and action to prevent unnecessary despoliation of its environment. It is particularly concerned with pesticides, water and air pollution, roadside management, nuclear reactions, forestry, Indians, natural areas, wild rivers, wilderness, land use, and open space preservation.

Audubon Camp of Wisconsin
National Audobon Society
1130 5th Avenue
New York, New York 10028

Greater Oconomowoc Antipollution League (GOAL)
Bob Sorenson, Chairman
37120 Juneau Avenue
Oconomowoc, Wisconsin 53066

Riveredge Nature Center, Inc.
4311 W. Hawthorne Drive
Newbury, Wisconsin 53060

"The Center uses an investigative, problem solving approach . . . school groups are directed by the Center's staff of full time professional naturalists. Although programs are prepared primarily for grades 4-6 and provide sequential experiences, students of other elementary and high school levels are accomodated. Also, the Center cooperates with schools and teachers in preparation of special programs. Programs offered include: "Life in the River," "The Field, Thicket and Forest," "Soil: The Foundation of Life," "The Honey Bee," "Mapping and Measurements," and others.

Ecology Action of River Falls
c/o James Lenfestey
409 S. Winter
River Falls, Wisconsin 54022

Soil Science Society of America, Inc.
Matthais Stelly, Executive Secretary
677 South Segoe Road
Madison, Wisconsin 53711
(608) 238-4222

The objectives of the SSSA are to promote basic and applied research in soils and to foster high standards in the education of future soil scientists and in the teaching of soil science. The Society makes information available to the public on advancements in soil sciences and techniques for improved farming.

Racine Coalition for Clean Air
Hank Cole
2010 Charles Street
Racine, Wisconsin
(414) 634-2976

RESOURCE MATERIALS AVAILABLE:

Directory of Environmental Organizations in Wisconsin, 1972

Published by: Environment Wisconsin
114 N. Carroll Street
Madison, Wisconsin 53703

Contains names addresses, membership, publications, and interests of groups. $1.00.

Environmental Resources Unit
University of Wisconsin
215 N. Brooks Street
Madison, Wisconsin 53706

Has films, etc.

Environmental Education News for Wisconsin Schools (a newsletter)
David Engleson, Editor
Specialist, Environmental Education
Department of Public Instruction
126 Langdon Street
Madison, Wisconsin 53702

It is mailed to Environmental Education contact persons in each school building in a form that can be easily xeroxed. It is to serve "as a means of communications between the Department and teachers, administrators and staff members on matters dealing with E.E. . . . it includes information regarding those things which classroom teachers frequently ask about."

Dembar Educational Research Services
Environmental Education
Clay Schoenfield, Editor
P. O. Box 1605
Madison, Wisconsin 53701
(608) 244-2778

Dembar Educational Research Services publishes Environmental Education, a national journal which features articles on research and development in conservation communications and education efforts.

Wisconsin Council for Conservation Education Newsletter
Robert Kellner, Editor
CESA 9
1927 Main Street
Green Bay, Wisconsin

A quarterly 12 page newsletter which describes many printed materials and audiovisual aids useful in school programs plus much other useful information. Write for membership-subscription information.

Spanish Ecology Packet
Pollution: Problems, Projects, and Exercises (Math, 6-9)
German Ecology Packet
French Ecology Packet
Ecology and Human Values

Publications - Sales
Department of Public Instruction
126 Langdon St.
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He worked out the basic blueprint for the Nelson bill last year, and consulted regarding OE's role set forth in the bill. He has an excellent graduate and undergraduate program for E.E. including information and communication aspects. He is the Editor of the new Journal of Environmental Education.

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